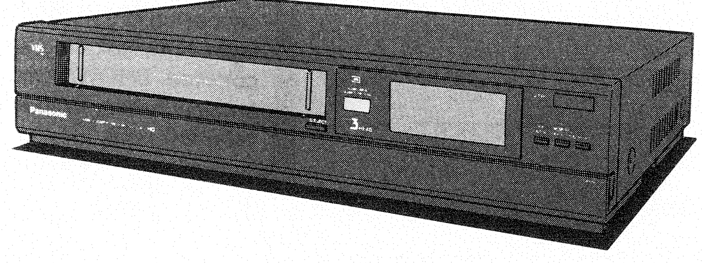
ORDER NO. VRD8808M150

Service Manual

Video Cassette Recorder

Panasonic VHS HQ
PAL

NV-G40BI



SPECIFICATION

ITEM	SPECIFICATION
POWER	SOURCE: 220~240 V 50/60 Hz
	CONSUMPTION: 23 watts
RECORDING SYSTEM	2 rotary heads, helical scanning system
	PAL
TV TUNER SYSTEM	VHF I: CH A~CH C (PAL I) VHF III: CH D~CH J (PAL I) VHF H: CH S11~CH S41 (PAL I) 75Ω unbalanced UHF: CH21~CH69 (PAL I) 75Ω unbalanced
RF OUT SYSTEM	UHF: CH 36±4 (PAL I) 73±3 dBμ, 75Ω terminated
VIDEO	HEADS: 3 rotary heads 1 pair for recording and playback (L-R heads) 1 pc. of head for video track play with L' head (field still and field show)
	INPUT: VIDEO IN Connector (BNC type) 1.0 Vp-p, 75Ω terminated
	OUTPUT: VIDEO OUT Connector (BNC type) 1.0 Vp-p, 75Ω terminated

ITEM	SPECIFICATION
AUDIO	HEAD: 1 stationary head
	INPUT: AUDIO IN Connector (Phono type) More than −10 dB V (316 mV), more than 50 kΩ
	OUTPUT: AUDIO OUT Connector (Phono type) −8 dB V (400 mV), less than 1 kΩ
TAPE FORMAT	VHS Cassette Tape (Tape width 12.7 mm)
TAPE SPEED	23.39 mm/s Record/Playback Time: 4 hours with 240 min. type tape FF/REW Time: 5.5 min. with 180 min. type tape
DIMENSIONS	382 (W) × 82 (H) × 343 (D) mm
WEIGHT	5.0 kg
STANDARD ACCESSORIES	1 PC. DIN-RF Cable 1 PC. Wireless Remote Controller 1 PC. Digital Scanner 1 PC. Programme Sheet 1 PC. AC Cord 1 PC. Digital Scanner Case 1 PC. Cleaning Brush

Weight and dimensions shown are approximate.
Specificatoins are subject to change without notice.

Panasonic

Matsushita Electric Industrial Co., Ltd.
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INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service the VHS Cassette Recorder Model NV-G40BI.
This service manual is based on NV-G40B.
Therefore please refer to the descriptions which are shown in NV-G40B service manual Order No. VRD8712M165.

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1. COMPARISON CHART

This chart is described different part from the basic model NV-G40B to the new model NV-G40BI.

Note: 1. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

Mechanical Replacement Parts (A).. Added, (C).. Changed, (D).. Deleted

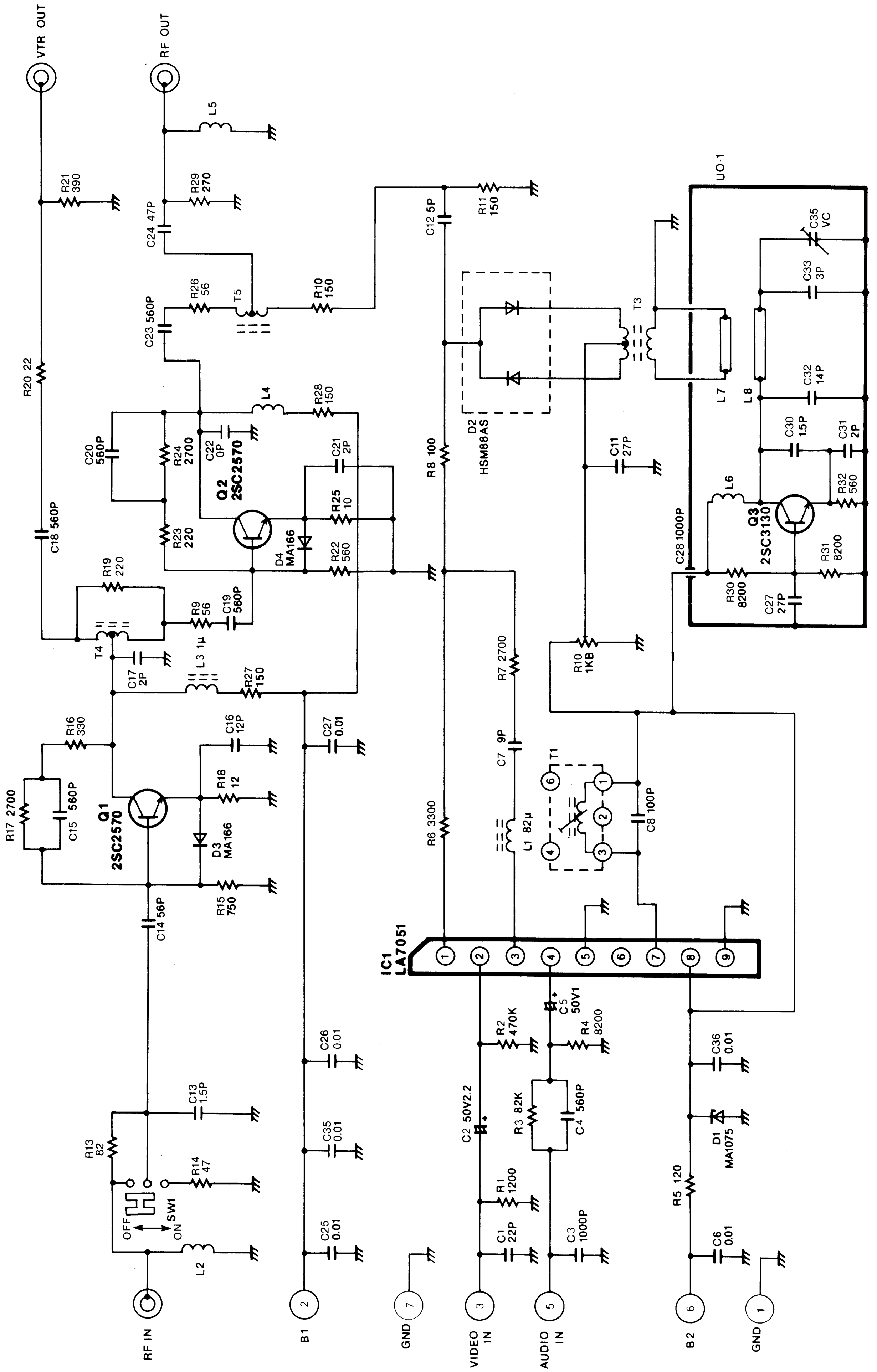
Ref. No.	NV-G40B Part No.	NV-G40BI Part No.	Pcs/Set	Part Name & Description	Remarks
303 (4)	VYP2244	VYP2469	1	FRONT PANEL UNIT	(C)
400 (5)	VQT2578	VQT2863	1	OPERATING INSTRUCTIONS	<SUPPLIED FROM MBV> ⚠ (C)
404 (5)	———	VPN2058	0→1	CUSION (L)	<SUPPLIED FROM MBV> (A)
405 (5)	———	VPN2057	0→1	CUSION (R)	<SUPPLIED FROM MBV> (A)
406 (5)	———	VPG4276	0→1	PACKING CASE	<SUPPLIED FROM MBV> (A)
412 (5)	———	VPK0825	0→1	ACCESSORIES PACKING CASE	(A)

Note: 2. Printed Circuit Board assembly (C.B.A.) with mark (NLA) is no longer available after discontinuation the product.

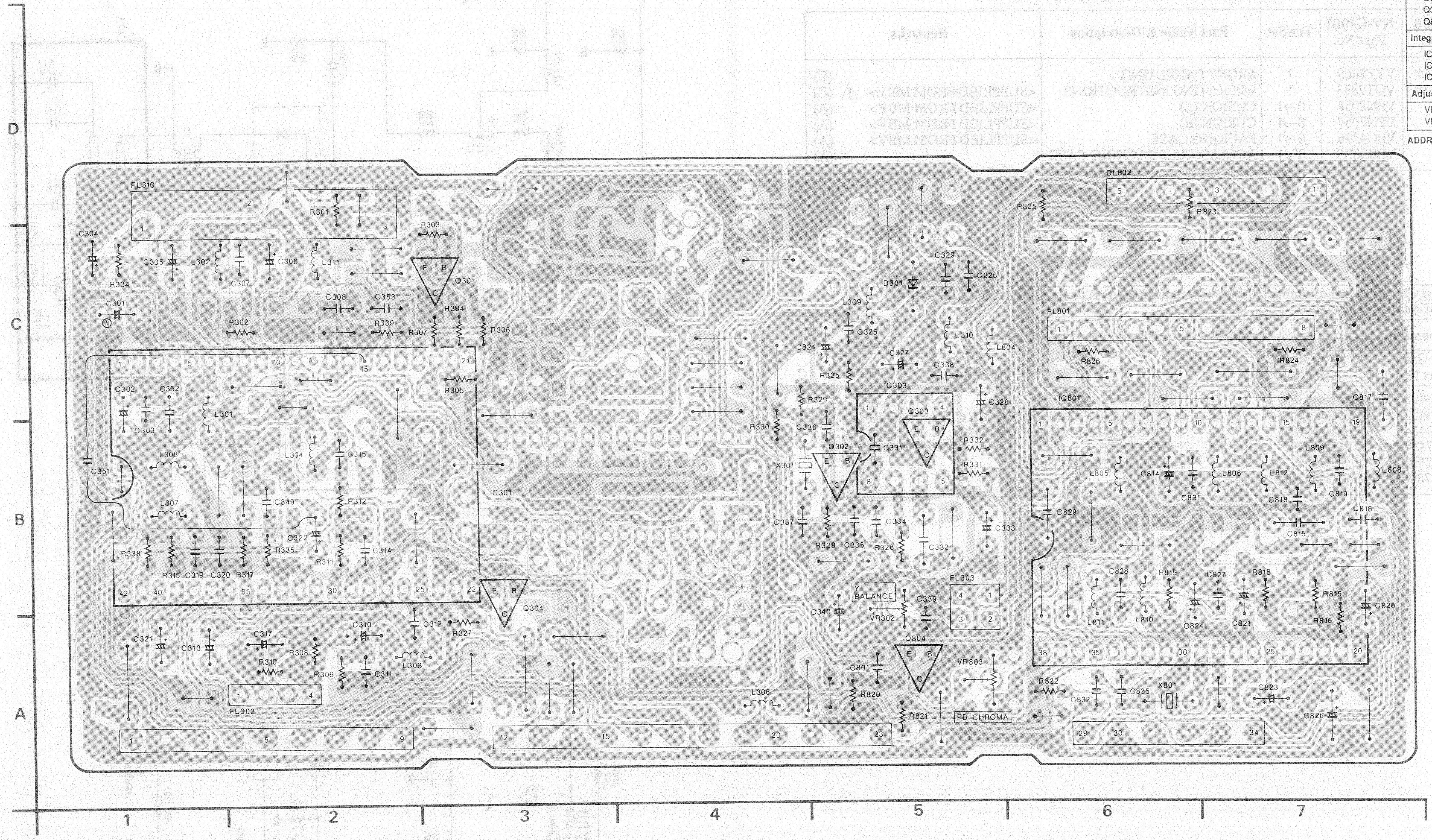
Electrical Replacement Parts (A).. Added, (C).. Changed, (D).. Deleted

Ref. No.	NV-G40B Part No.	NV-G40BI Part No.	Pcs/Set	Part Name & Description	Remarks
	VEP03493G	VEP03493Y	1	MAIN C.B.A.	(NLA) (C)
	VEP03402M	VEP03543D	1	LUMINANCE/CHROMINANCE C.B.A.	(NLA) (C)
	VEP07444E	VEP07444P	1	TV DEMODULATOR PACK C.B.A.	(NLA) (C)
	VEP07434D	VEP07434R	1	TIMER C.B.A.	(NLA) (C)
	ENC87962	ENC87968	1	RF CONVERTER UNIT	⚠ (C)
	ENV87806F2	ENV59811F1	1	TUNER	⚠ (C)

2. RF CONVERTER SCHEMATIC DIAGRAM


VTR OUT
RF OUT
L5
R21 390
R29 270
C24 47P
C12 5P
R11 150
UO-1
C35 VC
C33 3P
R26 56
T5
R10 150
C23 560P
T3
R20 22
L4
R28 150
L7
L8
C32 14P
D2 HSM88AS
C20 560P
R24 2700
C22 0P
Q2 2SC2570
C21 2P
R8 100
C11 27P
C30 1.5P
C31 2P
R25 10
L6
R32 560
C18 560P
R23 220
D4 MA166
R22 560
C28 1000P
Q3 2SC3130
R31 8200
R19 220
R9 56
C19 560P
R30 8200
C27 27P
T4
L3 1µ
C17 2P
R27 150
R7 2700
R10 1KB
R16 330
C16 12P
C27 0.01
C7 9P
T1
R17 2700
C15 560P
Q1 2SC2570
R18 12
D3 MA166
R6 3300
L1 82µ
C8 100P
R15 750
C14 56P
IC1 LA7051
1 2 3 4 5 6 7 8 9
R2 470K
C5 50V1
R4 8200
C26 0.01
C36 0.01
C13 1.5P
C2 50V2.2
R3 82K
C4 560P
D1 MA1075
R13 82
C35 0.01
R14 47
R1 1200
R5 120
OFF
ON
SW1
L2
C25 0.01
C1 22P
C3 1000P
C6 0.01
RF IN
B1 2
GND 7
VIDEO IN 3
AUDIO IN 5
B2 6
GND 1

3. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03543D)


D
C
B
A
1
2
3
4
5
6
7
FL310
R301
R303
C304
C305
L302
C307
C306
L311
Q301
E
B
C
R334
C301
C308
C353
R302
R339
R304
R307
R306
R305
C302
C352
C303
L301
L308
C351
L304
C315
L307
C349
R312
IC301
C322
R338
R316
C319
C320
R317
R335
R311
C314
Q304
C321
C313
C317
R310
R308
R309
C310
C311
L303
C312
R327
FL302
L306
C329
D301
C326
L309
C325
C324
C327
L310
L804
R325
C338
IC303
R329
C328
Q303
R330
C336
Q302
C331
R332
R331
X301
C337
R328
C335
C334
R326
C332
C333
FL303
Y
BALANCE
C339
VR302
C340
Q804
C801
R820
R821
VR803
PB CHROMA
DL802
R825
R823
FL801
R826
R824
IC801
C817
L809
L805
C814
L806
L812
L808
C819
C831
C818
C829
C816
C815
C828
R819
C827
R818
R815
R816
C820
L811
L810
C824
C821
R822
C832
C825
X801
C823
C826

LUMINANCE & CHROMINANCE PACK C.B.A.	
Transistor	
Q301	C-3
Q302	B-5
Q303	B-5
Q304	B-3
Q804	A-5
Integrated Circuit	
IC301	B-2
IC303	C-5
IC801	B-6
Adjustment	
VR302	B-5
VR803	A-5

ADDRESS INFORMATION

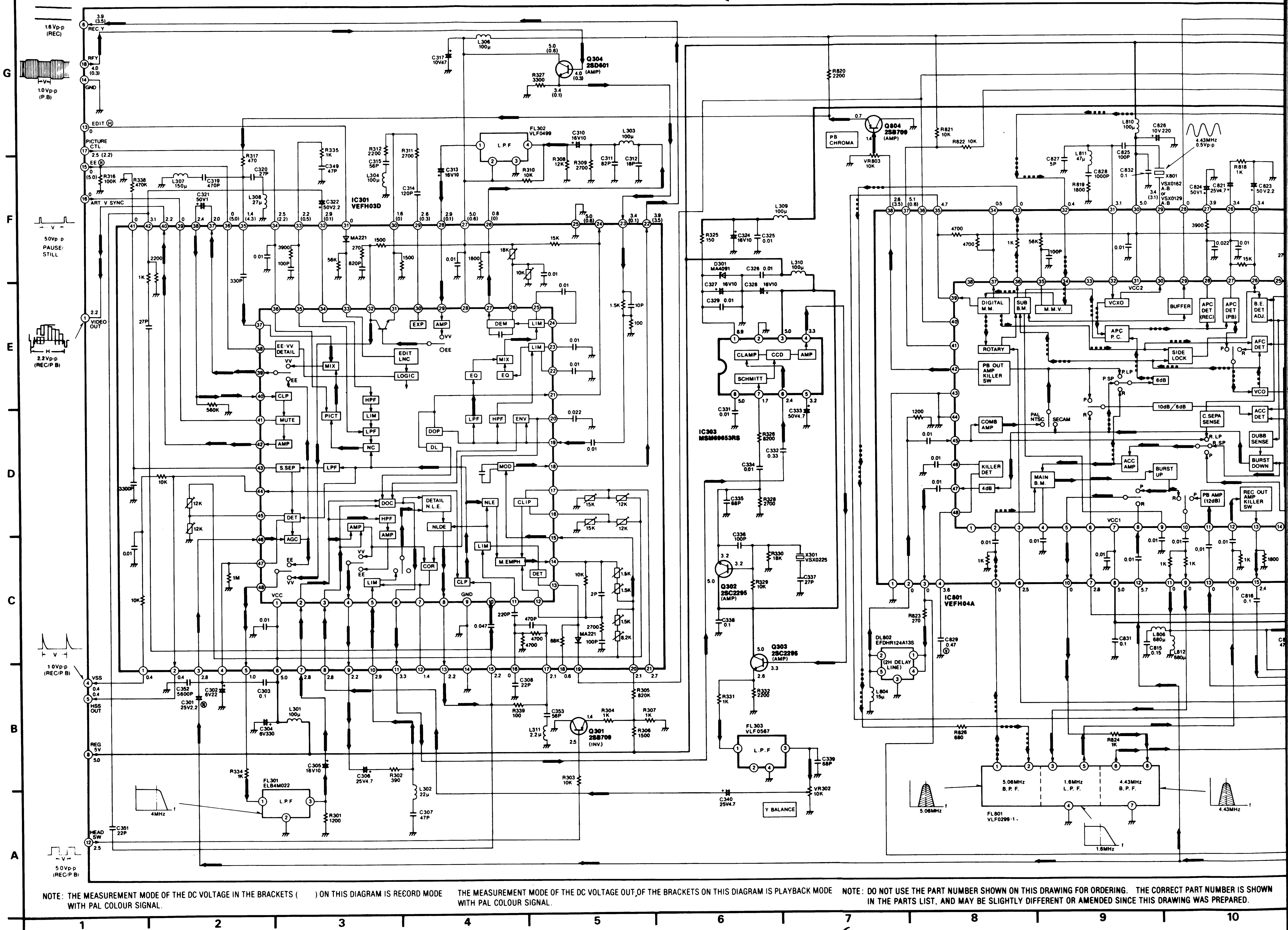
4. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

5.06MHz PHAS

5.06MHz PHAS



G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
1.6Vp-p (REC)
1.0Vp-p (P.B)
5.0Vp-p PAUSE/STILL
2.2Vp-p (REC/P.B)
1.0Vp-p (REC/P.B)
5.0Vp-p (REC/P.B)
REC Y
RFY
GND
EDIT H
PICTURE CTL
EE H
ART V SYNC
VIDEO OUT
VSS
HSS OUT
REG 5V
HEAD SW
IC301 VEFH03D
Q304 2SD601 (AMP)
FL302 VLF0499
L.P.F
EE-VV DETAIL
MIX
CLP
MUTE
AMP
S.SEP
LPF
DET
AGC
EDIT LNC
LOGIC
EXP
DEM
LIM
EQ
HPF
NC
PICT
DOP
DL
ENV
MOD
DOC
DETAIL N.L.E.
NLE
NLDE
CLIP
M.EMPH
COR
VCC
GND
Q301 2SB709 (INV.)
FL301 ELB4M022
4MHz
IC303 MSM6953RS
CLAMP
CCD
SCHMITT
Q302 2SC2295 (AMP)
Q303 2SC2295 (AMP)
X301 VSX0225
FL303 VLF0567
Y BALANCE
VR302 10K
Q804 2SB709 (AMP)
PB CHROMA
VR803 10K
IC801 VEFH04A
DIGITAL M.M.
SUB B.M.
M.M.V.
VCXO
BUFFER
APC DET (REC)
APC DET (PB)
B.E. DET ADJ.
APC P.C.
ROTARY
SIDE LOCK
AFC DET
PB OUT AMP KILLER SW
VCO
10dB/6dB
6dB
ACC DET
C.SEPA SENSE
COMB AMP
PAL NTSC
SECAM
DUBB SENSE
BURST DOWN
KILLER DET
4dB
MAIN B.M.
ACC AMP
BURST UP
PB AMP (12dB)
REC OUT AMP KILLER SW
VCC1
VCC2
DL802 EFDHR124A13S
(2H DELAY LINE)
X801 VSX0162 A-B or VSX0129 A-B
4.43MHz 0.5Vp-p
FL801 VLF0299-1
5.06MHz B.P.F.
1.6MHz L.P.F.
4.43MHz B.P.F.
5.06MHz
1.6MHz
4.43MHz

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

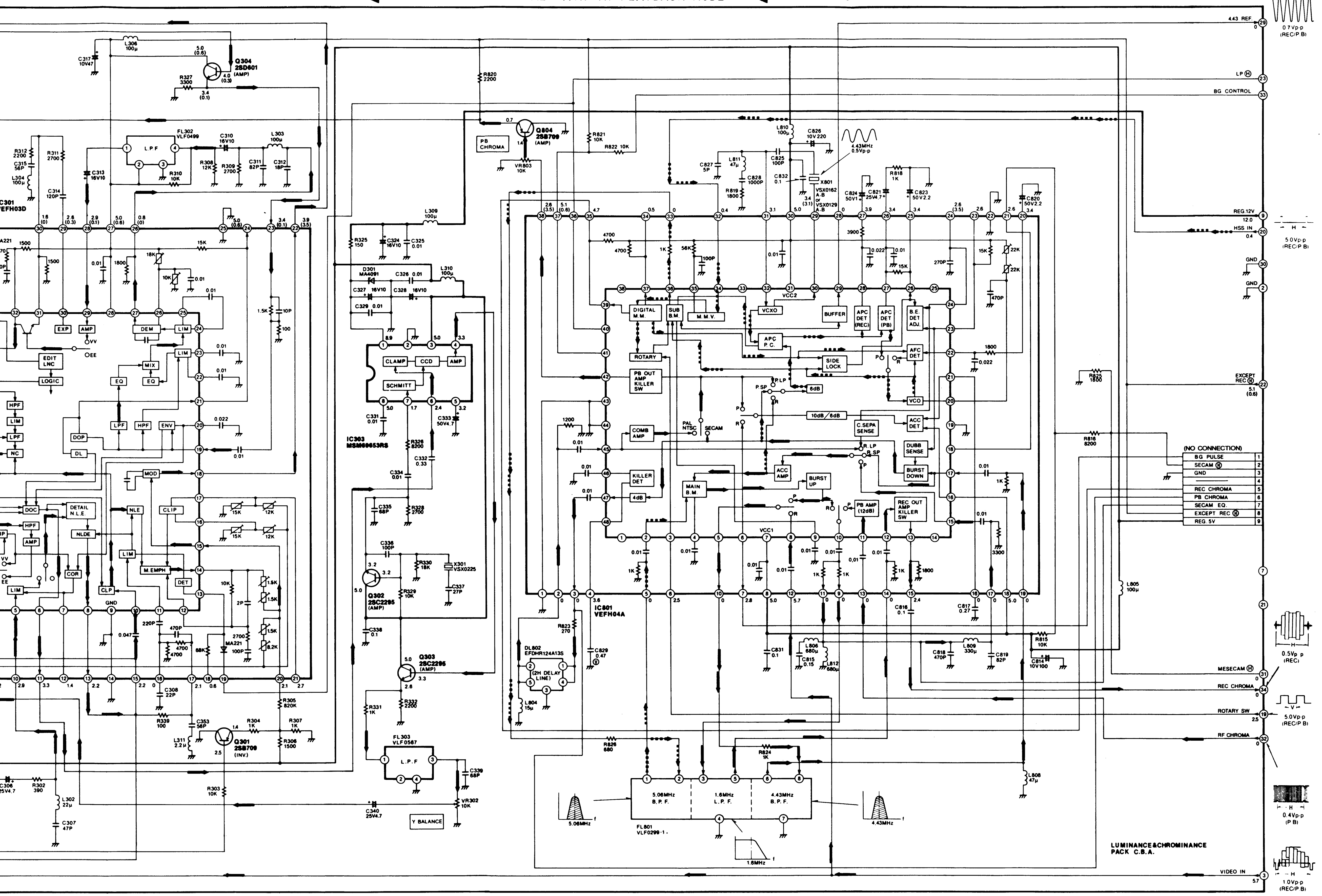
K SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE

5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE

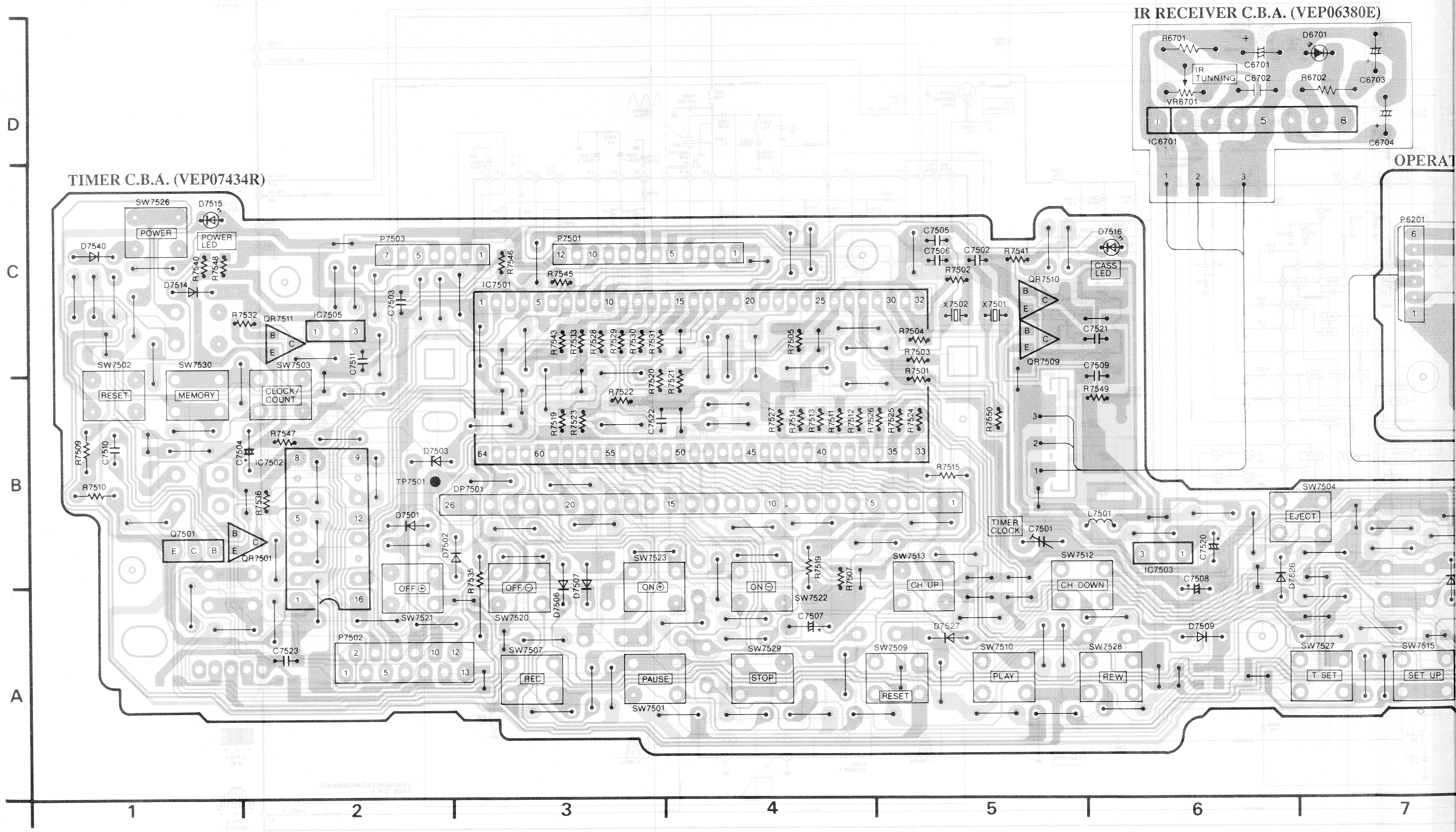

IC301 VEFH03D
IC303 MSM6953RS
IC801 VEFH04A
Q304 2SD601 (AMP)
Q804 2SB709 (AMP)
Q302 2SC2295 (AMP)
Q303 2SC2295 (AMP)
Q301 2SB709 (INV)
FL302 VLF0499
FL303 VLF0567
FL801 VLF0299-1
DL802 EFDHR124A13S (2H DELAY LINE)
X801 VSX0162 A·B or VSX0129 A·B
X301 VSX0225
VR803 10K
VR302 10K
Y BALANCE
PB CHROMA
L.P.F
CLAMP
CCD
AMP
SCHMITT
EXP
DEM
LIM
EDIT LNC
LOGIC
MIX
EQ
HPF
LPF
ENV
DOP
DL
NC
MOD
DOC
DETAIL N.L.E.
NLE
NLDE
CLIP
COR
M.EMPH
DET
DIGITAL M.M.
SUB B.M.
M.M.V.
VCXO
BUFFER
APC DET (REC)
APC DET (PB)
B.E. DET ADJ.
APC P.C.
ROTARY
SIDE LOCK
AFC DET
PB OUT AMP KILLER SW
6dB
VCO
10dB/6dB
C.SEPA SENSE
ACC DET
COMB AMP
DUBB SENSE
ACC AMP
BURST UP
BURST DOWN
KILLER DET
MAIN B.M.
4dB
PB AMP (12dB)
REC OUT AMP KILLER SW
VCC1
VCC2
PAL NTSC SECAM
4.43MHz 0.5Vp-p
5.06MHz B.P.F.
1.6MHz L.P.F.
4.43MHz B.P.F.
4.43 REF.
0.7Vp-p (REC/P.B)
LP (H)
BG CONTROL
REG.12V
HSS IN
5.0Vp-p (REC/P.B)
GND
EXCEPT REC (H)
(NO CONNECTION)
BG PULSE
SECAM (H)
REC CHROMA
PB CHROMA
SECAM EQ.
REG. 5V
MESECAM (H)
0.5Vp-p (REC)
ROTARY SW
5.0Vp-p (REC/P.B)
RF CHROMA
0.4Vp-p (P.B)
VIDEO IN
1.0Vp-p (REC/P.B)
LUMINANCE&CHROMINANCE PACK C.B.A.

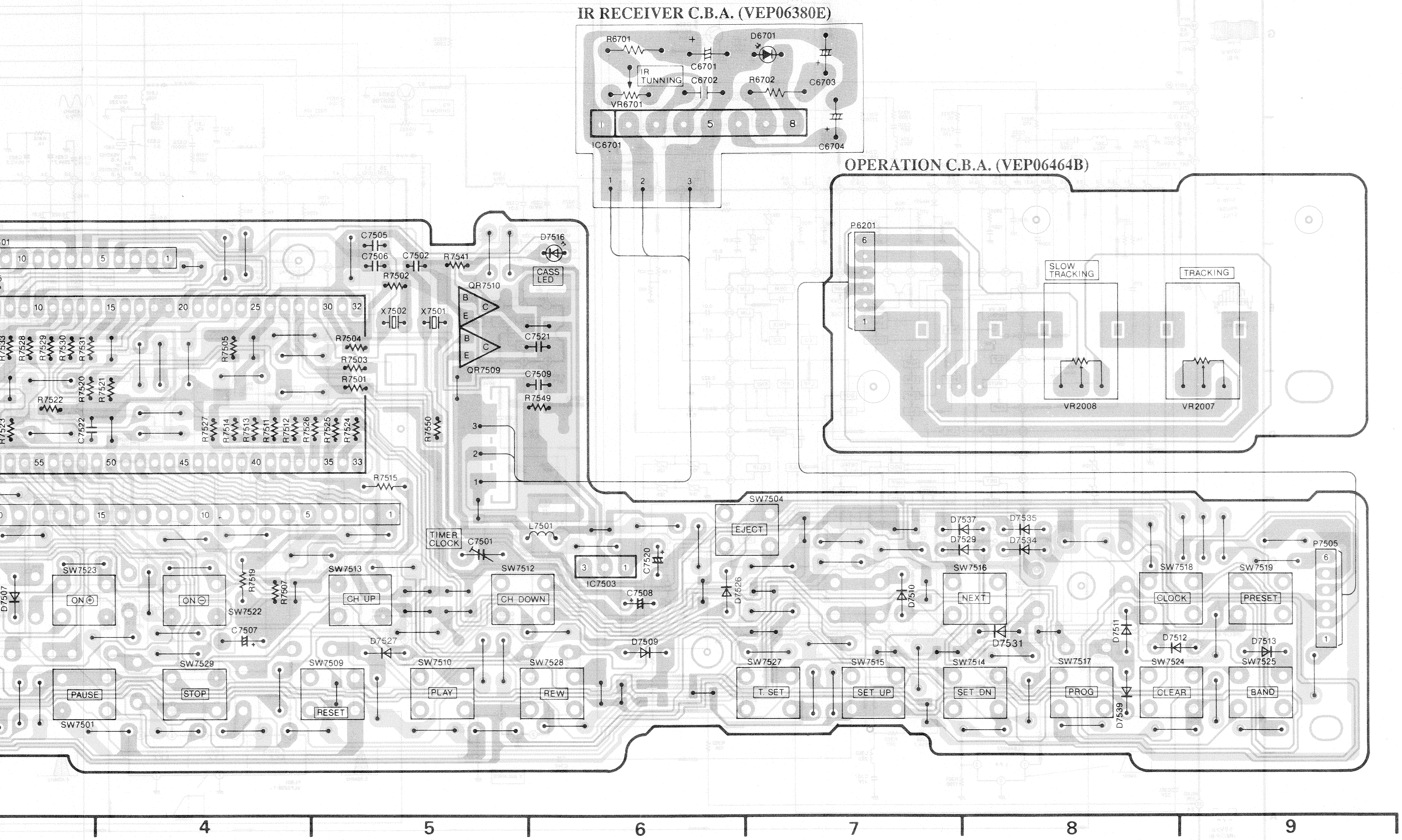
AGRAM IS RECORD MODE THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

4 5 6 7 8 9 10 11 12 13

5. TIMER C.B.A. (VEP07434R) & OPERATION C.B.A. (VEP06464B)

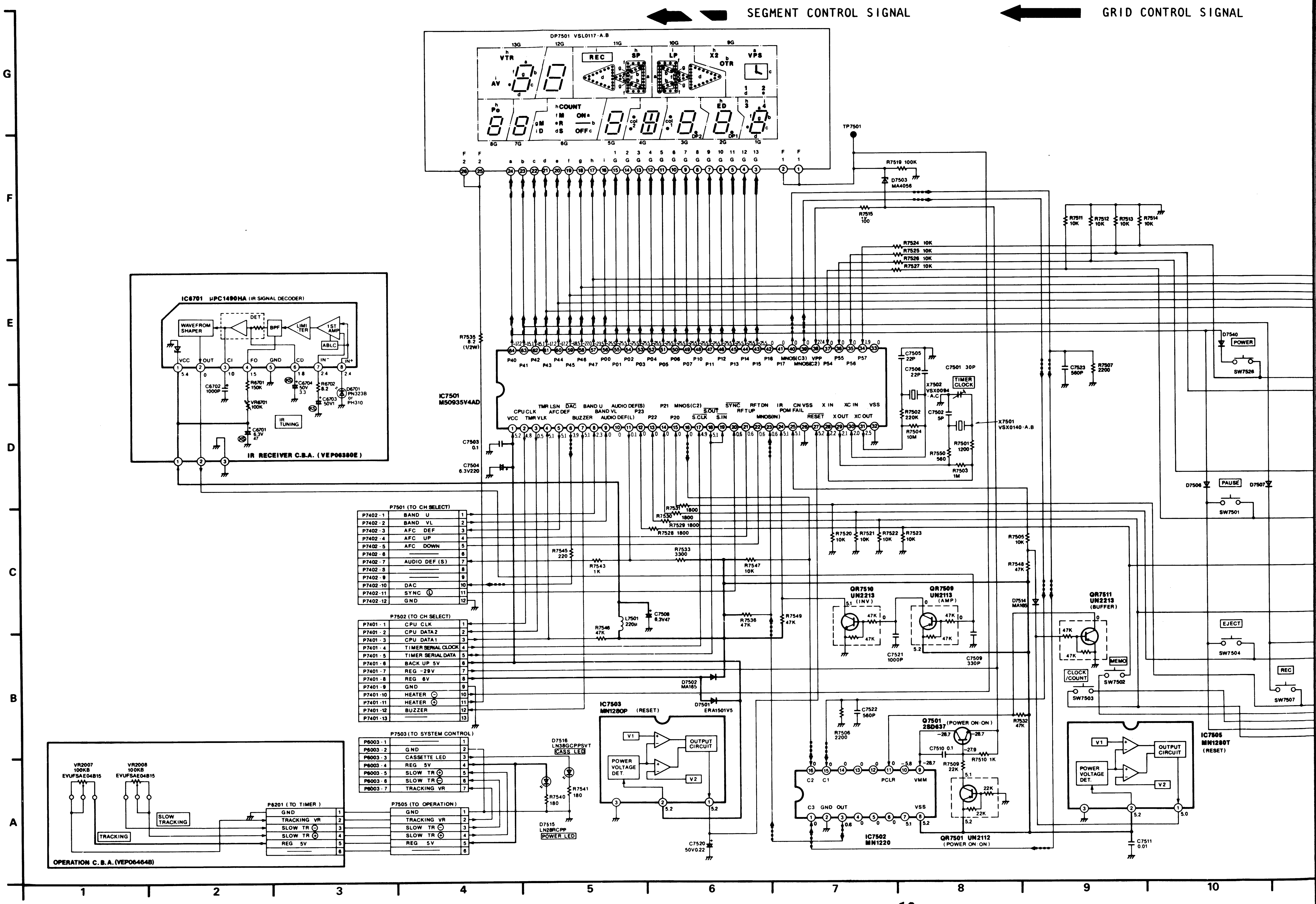

IR RECEIVER C.B.A. (VEP06380E)
R6701
D6701
C6701
IR TUNNING
C6702
R6702
C6703
VR6701
IC6701
C6704
OPERAT
P6201
TIMER C.B.A. (VEP07434R)
SW7526
POWER
D7515
POWER LED
D7540
R7540
R7548
D7514
R7532
QR7511
IC7505
SW7502
RESET
SW7530
MEMORY
SW7503
CLOCK/ COUNT
P7503
R7546
P7501
R7545
IC7501
C7503
C7511
C7505
C7506
C7502
R7541
D7516
CASS LED
R7502
QR7510
X7502
X7501
R7504
R7503
R7501
C7521
QR7509
C7509
R7549
R7543
R7533
R7528
R7529
R7530
R7531
R7505
R7522
R7520
R7521
R7519
R7523
C7522
R7527
R7514
R7513
R7511
R7512
R7526
R7525
R7524
R7550
R7509
C7510
R7547
C7504
IC7502
D7503
TP7501
DP7501
R7515
R7510
R7536
Q7501
E C B
QR7501
D7501
D7502
R7535
OFF ⊕
OFF ⊖
D7506
D7507
SW7523
ON ⊕
ON ⊖
R7519
R7507
SW7522
SW7513
CH UP
TIMER CLOCK
C7501
L7501
SW7512
CH DOWN
IC7503
C7520
C7508
D7526
SW7504
EJECT
SW7521
SW7520
C7507
D7527
D7509
C7523
P7502
SW7507
REC
PAUSE
SW7501
SW7529
STOP
SW7509
RESET
SW7510
PLAY
SW7528
REW
SW7527
T. SET
SW7515
SET UP
D
C
B
A
1
2
3
4
5
6
7

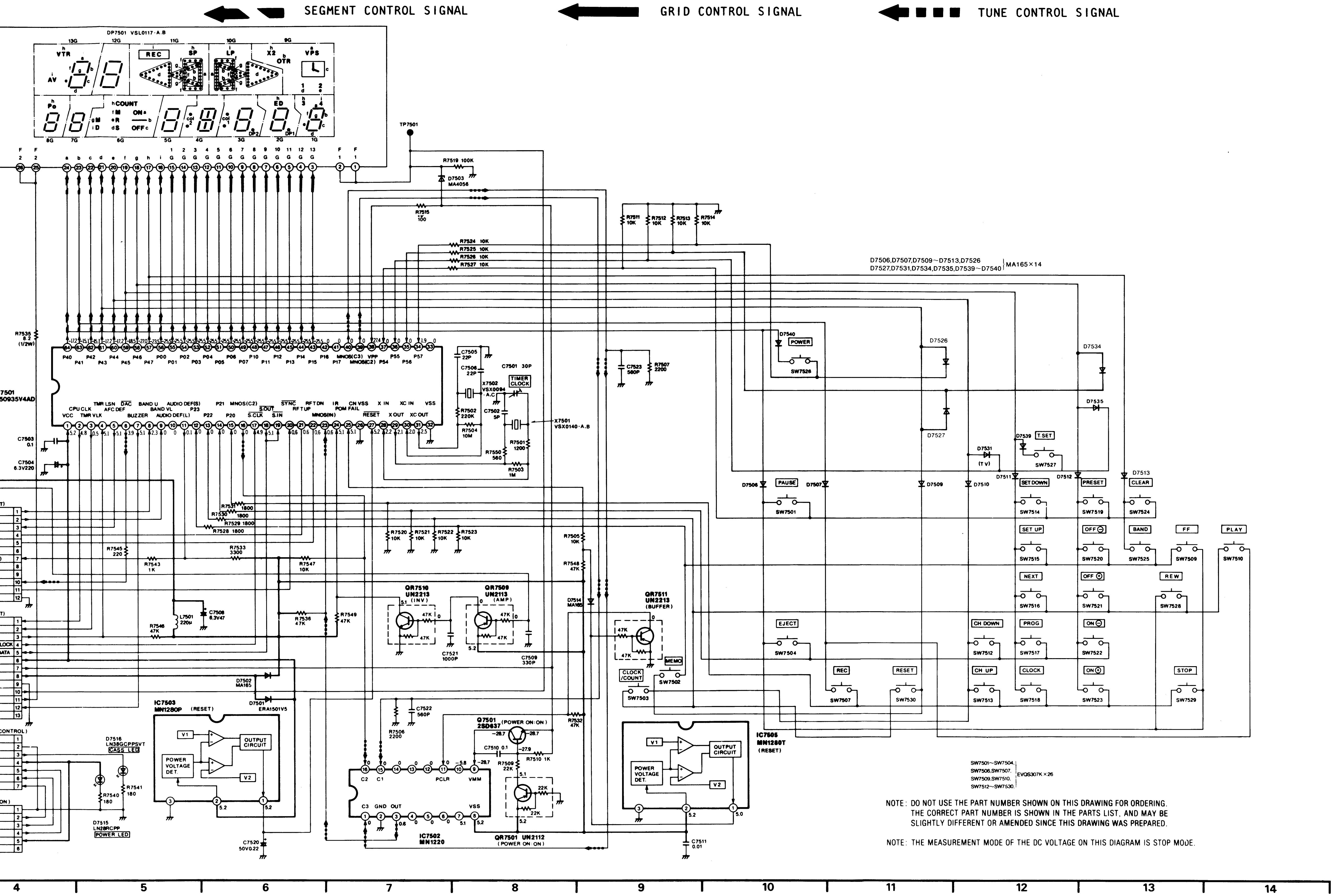

IR RECEIVER C.B.A. (VEP06380E)
R6701
C6701
D6701
IR TUNNING
C6702
R6702
C6703
VR6701
IC6701
5
8
C6704
1
2
3
OPERATION C.B.A. (VEP06464B)
P6201
6
1
SLOW TRACKING
TRACKING
VR2008
VR2007
C7505
C7506
C7502
R7541
D7516
CASS LED
R7502
QR7510
X7502
X7501
B
E
C
C7521
QR7509
C7509
R7549
R7504
R7503
R7501
R7505
R7550
R7522
R7520
R7521
C7522
R7527
R7514
R7513
R7511
R7512
R7526
R7525
R7524
R7528
R7529
R7530
R7531
R7515
10
15
20
25
30
32
55
50
45
40
35
33
TIMER CLOCK
C7501
L7501
C7520
IC7503
C7508
SW7504
EJECT
D7537
D7535
D7529
D7534
P7505
SW7523
ON ⊕
ON ⊖
SW7522
R7519
R7507
D7507
SW7513
CH UP
SW7512
CH DOWN
D7526
D7510
SW7516
NEXT
D7531
SW7518
CLOCK
SW7519
PRESET
C7507
D7527
D7509
D7511
D7512
D7513
SW7529
SW7509
SW7510
SW7528
SW7527
SW7515
SW7514
SW7517
SW7524
SW7525
PAUSE
STOP
RESET
PLAY
REW
T. SET
SET UP
SET DN
PROG
CLEAR
BAND
SW7501
D7539
4
5
6
7
8
9

TIMER C.B.A. & OPERATION C.B.A.	
Transistor	
Q7501	B-1
Transistor & Resistor	
QR7501 QR7509 QR7510 QR7511	B-2 C-5 C-5 C-2
Integrated Circuit	
IC6701 IC7501 IC7502 IC7503 IC7505	D-6 C-3 B-2 B-6 C-2
Test Point	
TP7501	B-2
Adjustment	
VR2007 VR2008 VR3004 VR6701 C7501	B-9 B-8 B-7 D-6 B-5
Connector	
P6201 P7501 P7502 P7503 P7505	C-7 C-3 A-2 C-2 B-9

ADDRESS INFORMATION

6. TIMER & OPERATION SCHEMATIC DIAGRAM

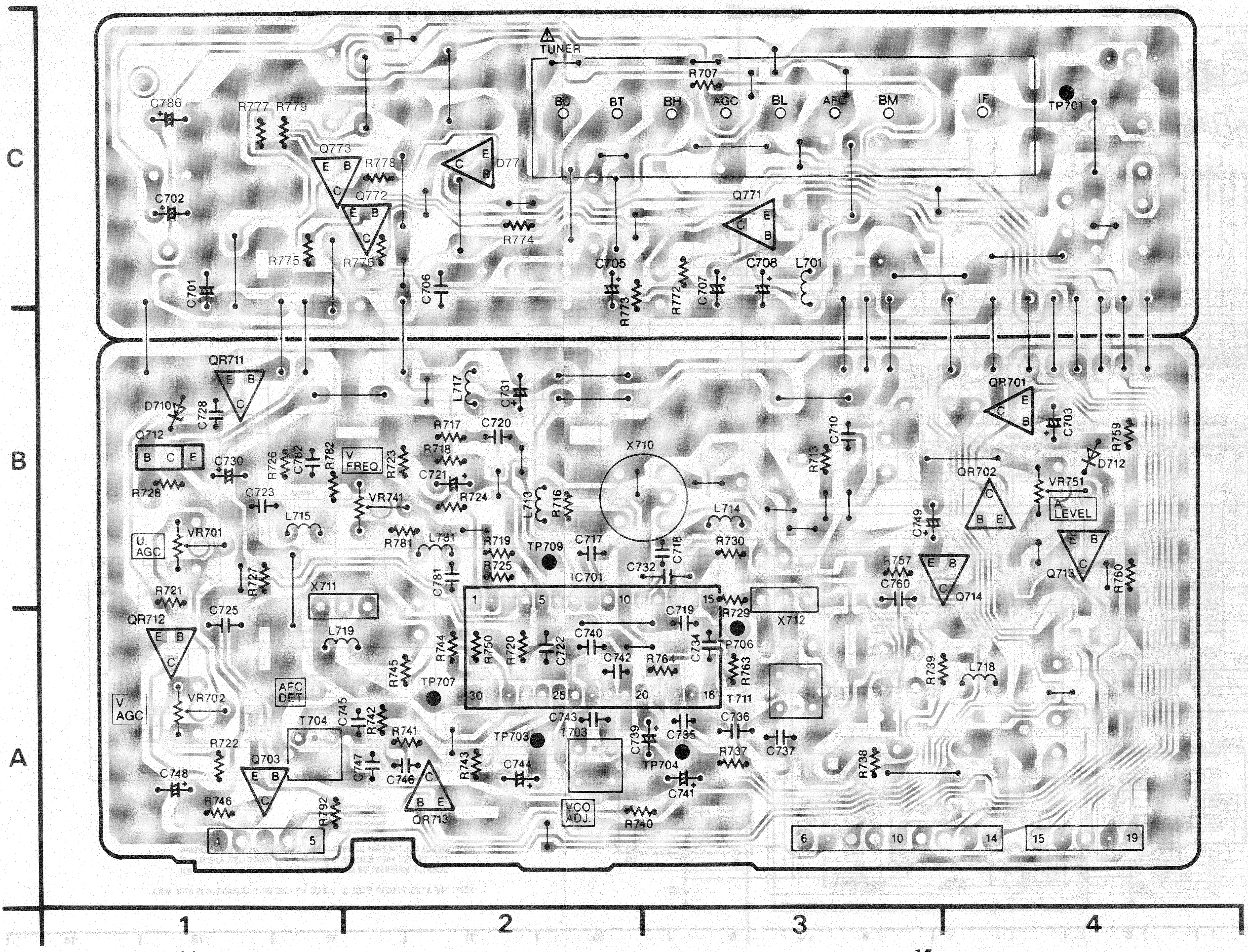

SEGMENT CONTROL SIGNAL
GRID CONTROL SIGNAL
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
DP7501 VSL0117·A.B
VTR
AV
REC
SP
LP
X2
OTR
VPS
Po
COUNT
M
R
S
D
ON
OFF
ED
TP7501
IC6701 μPC1490HA (IR SIGNAL DECODER)
WAVEFROM SHAPER
DET
BPF
LIMITER
1ST AMP
ABLC
IR TUNING
IR RECEIVER C.B.A. (VEP06380E)
IC7501 M50935V4AD
C7505 22P
C7506 22P
C7501 30P
TIMER CLOCK
X7502 VSX0094·A.C
X7501 VSX0140·A.B
R7519 100K
D7503 MA4056
R7515 100
R7511 10K
R7512 10K
R7513 10K
R7514 10K
R7524 10K
R7525 10K
R7526 10K
R7527 10K
R7535 8.2 (1/2W)
C7523 560P
R7507 2200
D7540
POWER
SW7526
P7501 (TO CH SELECT)
P7402·1 BAND U
P7402·2 BAND VL
P7402·3 AFC DEF
P7402·4 AFC UP
P7402·5 AFC DOWN
P7402·7 AUDIO DEF (S)
P7402·10 DAC
P7402·11 SYNC
P7402·12 GND
P7502 (TO CH SELECT)
P7401·1 CPU CLK
P7401·2 CPU DATA2
P7401·3 CPU DATA1
P7401·4 TIMER SERIAL CLOCK
P7401·5 TIMER SERIAL DATA
P7401·6 BACK UP 5V
P7401·7 REG -29V
P7401·8 REG 6V
P7401·9 GND
P7401·10 HEATER ⊖
P7401·11 HEATER ⊕
P7401·12 BUZZER
P7401·13
P7503 (TO SYSTEM CONTROL)
P6003·2 GND
P6003·3 CASSETTE LED
P6003·4 REG 5V
P6003·5 SLOW TR ⊖
P6003·6 SLOW TR ⊕
P6003·7 TRACKING VR
P8201 (TO TIMER)
P7505 (TO OPERATION)
GND
TRACKING VR
SLOW TR ⊖
SLOW TR ⊕
REG 5V
VR2007 100KB EVUFSAE04B15
VR2008 100KB EVUFSAE04B15
SLOW TRACKING
TRACKING
OPERATION C.B.A. (VEP06464B)
D7516 LN38GCPPSVT CASS LED
D7515 LN28RCPP POWER LED
R7540 180
R7541 180
IC7503 MN1280P (RESET)
V1
V2
OUTPUT CIRCUIT
POWER VOLTAGE DET.
C7520 50V0.22
D7502 MA165
D7501 ERA1501V5
L7501 220μ
C7508 6.3V47
QR7510 UN2213 (INV)
QR7509 UN2113 (AMP)
C7521 1000P
C7509 330P
QR7511 UN2213 (BUFFER)
CLOCK /COUNT
SW7503
MEMO
SW7502
PAUSE
SW7501
D7506
D7507
EJECT
SW7504
REC
SW7507
C7522 560P
R7506 2200
Q7501 2SD637 (POWER ON·ON)
R7510 1K
R7509 22K
IC7502 MN1220
QR7501 UN2112 (POWER ON·ON)
IC7505 MN1280T (RESET)
C7511 0.01


SEGMENT CONTROL SIGNAL
GRID CONTROL SIGNAL
TUNE CONTROL SIGNAL
DP7501 VSL0117-A.B
VTR
AV
REC
SP
LP
X2
OTR
VPS
COUNT
ON
OFF
ED
TP7501
R7519 100K
D7503 MA4056
R7515 100
R7511 10K
R7512 10K
R7513 10K
R7514 10K
R7524 10K
R7525 10K
R7526 10K
R7527 10K
D7506,D7507,D7509~D7513,D7526
D7527,D7531,D7534,D7535,D7539~D7540 MA165×14
R7535 8.2 (1/2W)
C7505 22P
C7506 22P
C7501 30P
TIMER CLOCK
X7502 VSX0094-A.C
R7502 220K
C7502 5P
R7504 10M
X7501 VSX0140-A.B
R7501 1200
R7550 560
R7503 1M
C7523 560P
R7507 2200
C7503 0.1
C7504 6.3V220
R7531 1800
R7530 1800
R7529 1800
R7528 1800
R7545 220
R7543 1K
R7533 3300
R7547 10K
R7520 10K
R7521 10K
R7522 10K
R7523 10K
R7505 10K
R7548 47K
D7514 MA165
QR7510 UN2213 (INV)
QR7509 UN2113 (AMP)
C7521 1000P
C7509 330P
QR7511 UN2213 (BUFFER)
L7501 220µ
C7508 6.3V47
R7546 47K
R7536 47K
R7549 47K
D7502 MA165
D7501 ERA1501V5
IC7503 MN1280P (RESET)
V1
V2
OUTPUT CIRCUIT
POWER VOLTAGE DET.
D7516 LN38GCPPSVT CASS LED
D7515 LN28RCPP POWER LED
R7540 180
R7541 180
C7520 50V0.22
R7506 2200
C7522 560P
Q7501 2SD637 (POWER ON:ON)
C7510 0.1
R7510 1K
R7509 22K
R7532 47K
QR7501 UN2112 (POWER ON:ON)
IC7502 MN1220
IC7505 MN1280T (RESET)
C7511 0.01
D7540 POWER SW7526
D7526
D7527
D7534
D7535
D7539 T.SET SW7527
D7531 (TV)
D7511 SET DOWN SW7514
D7512 PRESET SW7519
D7513 CLEAR SW7524
PAUSE SW7501
D7506
D7507
D7509
D7510
SET UP SW7515
OFF SW7520
BAND SW7525
FF SW7509
PLAY SW7510
NEXT SW7516
OFF SW7521
REW SW7528
EJECT SW7504
CH DOWN SW7512
PROG SW7517
ON SW7522
MEMO SW7502
CLOCK /COUNT SW7503
REC SW7507
RESET SW7530
CH UP SW7513
CLOCK SW7518
ON SW7523
STOP SW7529
SW7501~SW7504, SW7506,SW7507, SW7509,SW7510, SW7512~SW7530 EVQS307K×26
4
5
6
7
8
9
10
11
12
13
14

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

7. TUNER & TV DEMODULATOR PACK C.B.A. (VEP0744PH)


C
B
A
1
2
3
4
TUNER
BU
BT
BH
AGC
BL
AFC
BM
IF
TP701
R707
C786
R777
R779
Q773
R778
D771
Q772
C702
R775
R776
R774
Q771
C701
C706
C705
R773
R772
C707
C708
L701
QR711
D710
C728
Q712
B C E
L717
C731
QR701
C703
R759
D712
C730
R726
C782
R782
V FREQ
R723
R717
R718
C720
C721
R724
X710
L713
R716
L714
C710
R713
QR702
VR751
A. LEVEL
R728
C723
VR741
L715
R781
L781
R719
R725
TP709
C717
C718
R730
C732
C749
R757
C760
Q714
Q713
R760
U. AGC
VR701
R727
R721
X711
C781
IC701
1
5
10
15
16
20
25
30
R729
X712
C725
C719
TP706
QR712
L719
R744
R750
R720
C722
C740
C742
R764
C734
R763
R745
TP707
AFC DET
T711
R739
L718
V. AGC
VR702
T704
C745
C742
R741
C743
T703
TP703
C739
C735
C736
C737
R737
R722
Q703
C747
C746
QR713
R743
C744
TP704
C741
R738
C748
R746
R792
VCO ADJ.
R740
1
5
6
10
14
15
19

TUNER & TV DEMODULATOR
ADDRESS INFORMATION

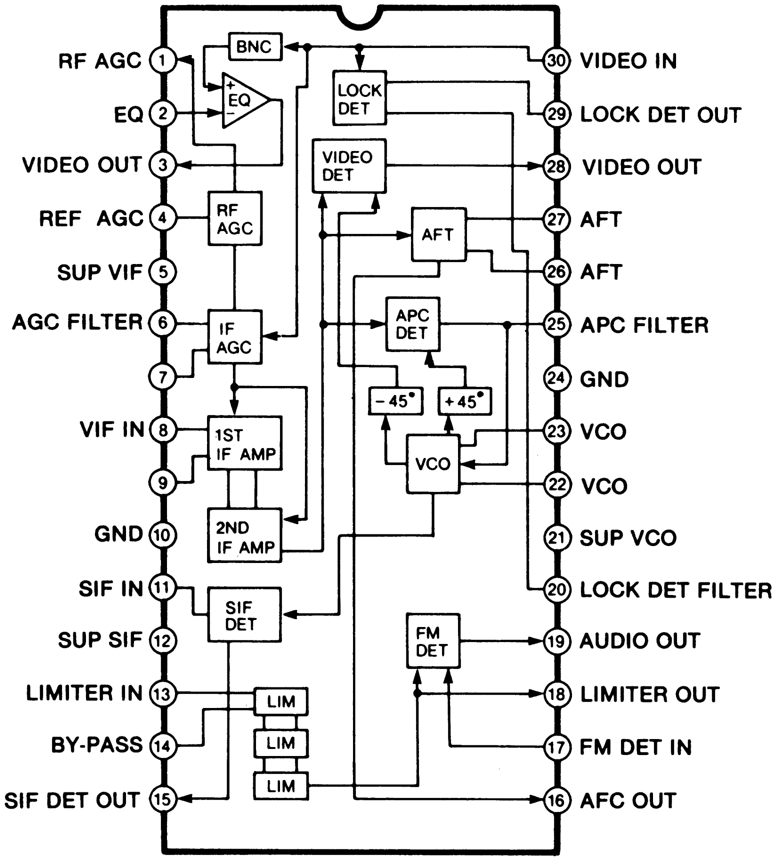
TUNER Section	
Transistor	
Q771	C-3
Q772	C-2
Q773	C-1
Test Point	
TP701	C-4

ADDRESS INFORMATION

TV DEMODULATOR	
Transistor	
Q703	A-1
Q712	B-1
Q713	B-4
Q714	B-4
Transistor & Resistor	
QR701	B-4
QR702	B-4
QR711	B-1
QR712	A-1
QR713	A-2
QR714	B-3
Integrated Circuit	
IC701	A-2
Test Point	
TP703	A-2
TP704	A-3
TP706	A-3
TP707	A-2
TP709	B-2
Adjustment	
VR701	B-1
VR702	A-1
VR741	B-2
VR751	B-4
T703	A-2
T704	A-1
T711	A-3

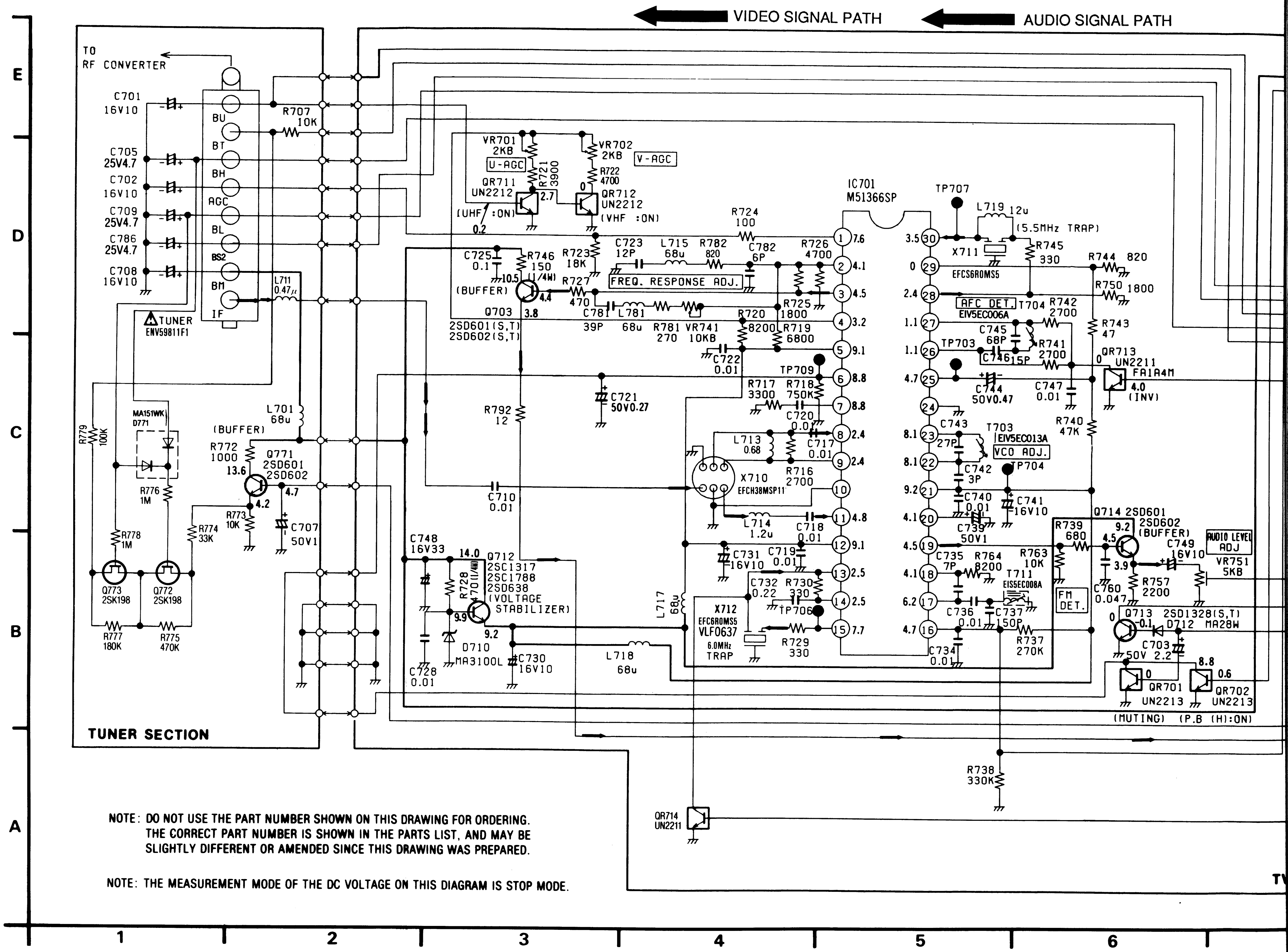
ADDRESS INFORMATION

IC BLOCK
IC701 (M51366SP)



RF AGC ①
EQ ②
VIDEO OUT ③
REF AGC ④
SUP VIF ⑤
AGC FILTER ⑥
⑦
VIF IN ⑧
⑨
GND ⑩
SIF IN ⑪
SUP SIF ⑫
LIMITER IN ⑬
BY-PASS ⑭
SIF DET OUT ⑮
㉚ VIDEO IN
㉙ LOCK DET OUT
㉘ VIDEO OUT
㉗ AFT
㉖ AFT
㉕ APC FILTER
㉔ GND
㉓ VCO
㉒ VCO
㉑ SUP VCO
⑳ LOCK DET FILTER
⑲ AUDIO OUT
⑱ LIMITER OUT
⑰ FM DET IN
⑯ AFC OUT
BNC
+
EQ
-
LOCK DET
VIDEO DET
RF AGC
AFT
APC DET
IF AGC
-45°
+45°
1ST IF AMP
VCO
2ND IF AMP
SIF DET
FM DET
LIM
LIM
LIM

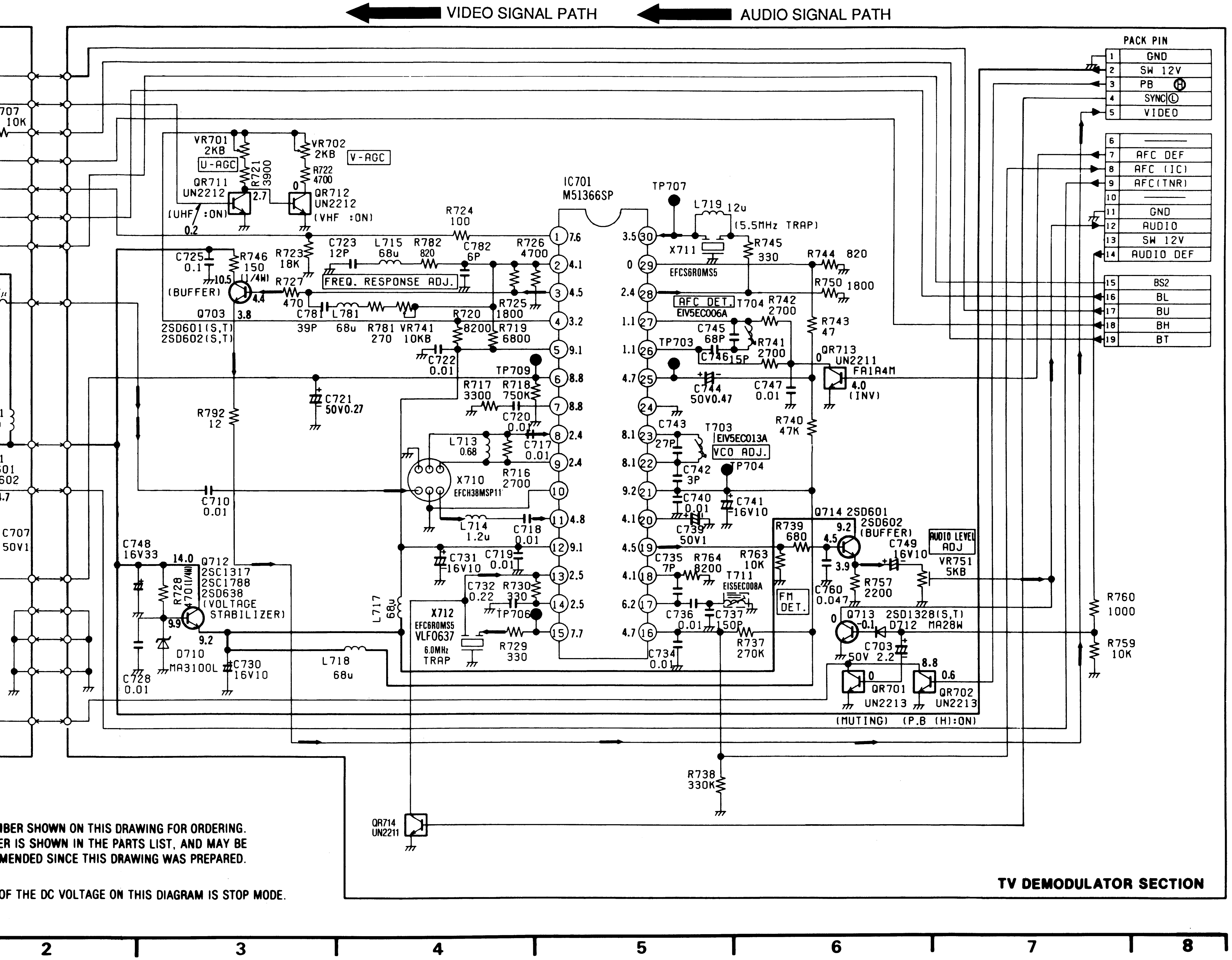
8. TUNER & TV DEMODULATOR PACK SCHEMATIC DIAGRAM


VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
E
D
C
B
A
1
2
3
4
5
6
TO RF CONVERTER
C701 16V10
C705 25V4.7
C702 16V10
C709 25V4.7
C786 25V4.7
C708 16V10
BU
BT
BH
AGC
BL
BS2
BM
IF
R707 10K
L711 0.47μ
TUNER ENV59811F1
MA151WK D771
R779 100K
R776 1M
R778 1M
Q773 2SK198
Q772 2SK198
R777 180K
R775 470K
R774 33K
L701 68u
(BUFFER)
R772 1000
13.6
Q771 2SD601 2SD602
4.7
4.2
R773 10K
C707 50V1
TUNER SECTION
VR701 2KB
U-AGC
QR711 UN2212
R721 3900
2.7
(UHF :ON)
0.2
VR702 2KB
V-AGC
R722 4700
0
QR712 UN2212
(VHF :ON)
C725 0.1
10.5
R746 150 (1/4W)
R723 18K
R727 470
(BUFFER)
Q703 2SD601(S,T) 2SD602(S,T)
4.4
3.8
C723 12P
L715 68u
R782 820
C782 6P
R724 100
R726 4700
FREQ. RESPONSE ADJ.
C781 39P
L781 68u
R781 270
VR741 10KB
R720 8200
R725 1800
R719 6800
C722 0.01
TP709
R717 3300
R718 750K
C720 0.01
R792 12
C721 50V0.27
L713 0.68
C717 0.01
X710 EFCH38MSP11
R716 2700
C710 0.01
L714 1.2u
C718 0.01
C748 16V33
14.0
R728 470(1/4W)
Q712 2SC1317 2SC1788 2SD638 (VOLTAGE STABILIZER)
9.9
9.2
D710 MA3100L
C728 0.01
C730 16V10
L718 68u
L717 68u
C731 16V10
C719 0.01
C732 0.22
R730 330
TP706
X712 EFC6R0MS5 VLF0637 6.0MHz TRAP
R729 330
IC701 M51366SP
7.6
4.1
4.5
3.2
9.1
8.8
8.8
2.4
2.4
4.8
9.1
2.5
2.5
7.7
3.5
0
2.4
1.1
1.1
4.7
8.1
8.1
9.2
4.1
4.5
4.1
6.2
4.7
TP707
L719 12u (5.5MHz TRAP)
X711 EFCS6R0MS5
R745 330
AFC DET. T704 EIV5EC006A
C745 68P
TP703
C746 15P
R741 2700
R742 2700
C744 50V0.47
C747 0.01
C743 27P
T703 EIV5EC013A
VCO ADJ.
TP704
C742 3P
C740 0.01
C741 16V10
C739 50V1
C735 7P
R764 8200
R763 10K
T711 EIS5EC008A
C736 0.01
C737 150P
R737 270K
C734 0.01
R744 820
R750 1800
R743 47
QR713 UN2211
FA1A4M
4.0 (INV)
R740 47K
Q714 2SD601 2SD602 (BUFFER)
R739 680
9.2
4.5
3.9
C749 16V10
AUDIO LEVEL ADJ
VR751 5KB
C760 0.047
R757 2200
FM DET.
Q713 2SD1328(S,T)
-0.1
D712 MA28W
C703 50V 2.2
8.8
0.6
QR701 UN2213
QR702 UN2213
(MUTING) (P.B (H):ON)
R738 330K
QR714 UN2211
TV

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

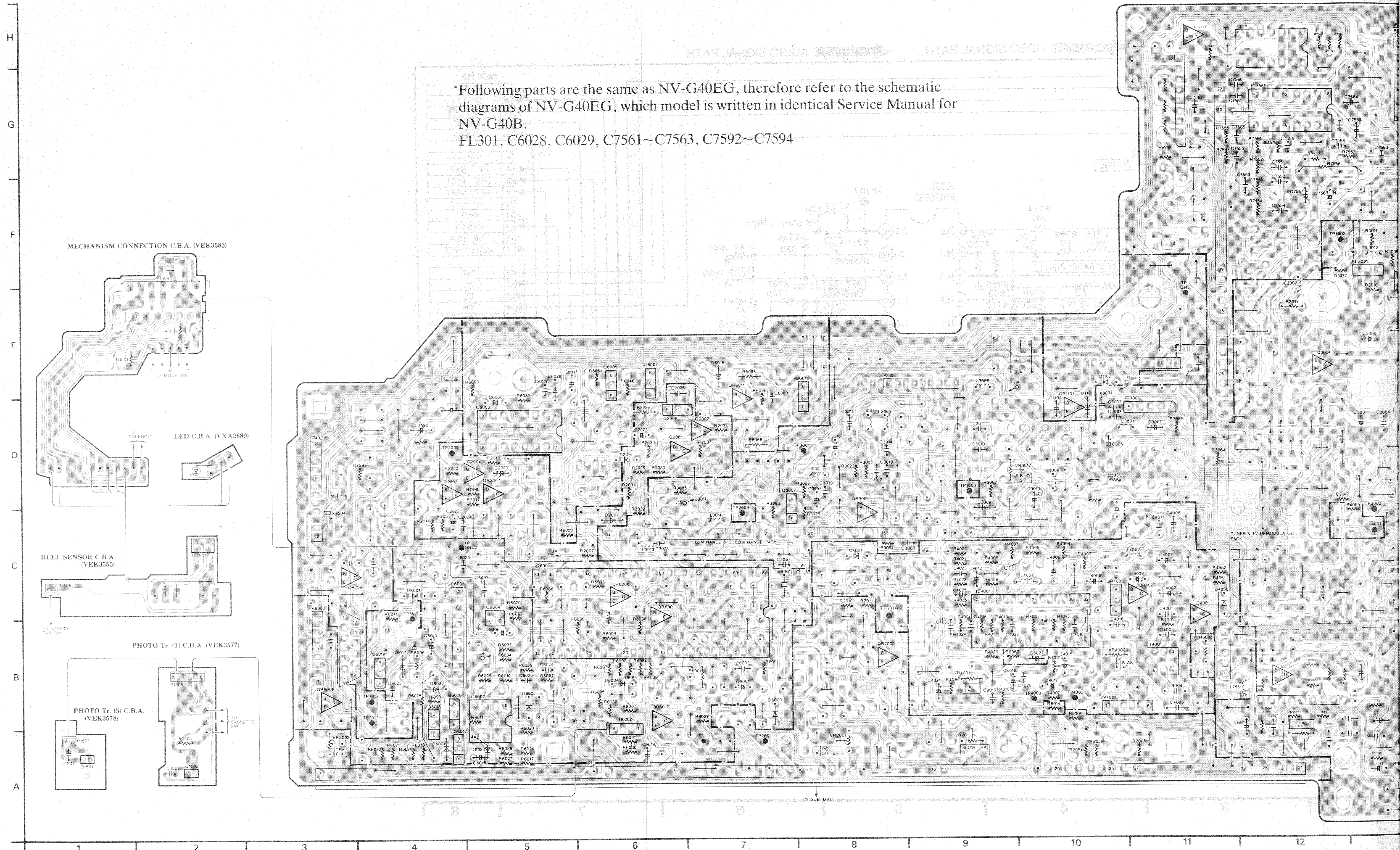
TOR PACK SCHEMATIC DIAGRAM


VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
PACK PIN
1 GND
2 SW 12V
3 PB Ⓗ
4 SYNC Ⓛ
5 VIDEO
6 ———
7 AFC DEF
8 AFC (IC)
9 AFC (TNR)
10 ———
11 GND
12 AUDIO
13 SW 12V
14 AUDIO DEF
15 BS2
16 BL
17 BU
18 BH
19 BT
IC701 M51366SP
VR701 2KB
U-AGC
VR702 2KB
V-AGC
QR711 UN2212
(UHF :ON)
QR712 UN2212
(VHF :ON)
R721 3900
R722 4700
R724 100
C723 12P
L715 68u
R782 820
C782 6P
R726 4700
FREQ. RESPONSE ADJ.
C725 0.1
R746 150 (1/4W)
R723 18K
R727 470
(BUFFER)
Q703 2SD601(S,T) 2SD602(S,T)
C781 39P
L781 68u
R781 270
VR741 10KB
R720 8200
R725 1800
R719 6800
C722 0.01
TP709
R717 3300
R718 750K
C720 0.01
C721 50V0.27
R792 12
L713 0.68
C717 0.01
R716 2700
X710 EFCH38MSP11
C710 0.01
L714 1.2u
C718 0.01
C748 16V33
Q712 2SC1317 2SC1788 2SD638 (VOLTAGE STABILIZER)
R728 270 (1/4W)
D710 MA3100L
C728 0.01
C730 16V10
L718 68u
L717 68u
C731 16V10
C719 0.01
C732 0.22
R730 330
TP706
X712 EFC6R0MS5 VLF0637 6.0MHz TRAP
R729 330
TP707
L719 12u
(5.5MHz TRAP)
X711 EFCS6R0MS5
R745 330
R744 820
R750 1800
AFC DET.
EIV5EC006A
T704
R742 2700
R743 47
TP703
C745 68P
C746 15P
R741 2700
QR713 UN2211
FA1A4M
(INV)
C744 50V0.47
C747 0.01
R740 47K
C743 27P
T703 EIV5EC013A
VCO ADJ.
C742 3P
TP704
C740 0.01
C741 16V10
C739 50V1
C735 7P
R764 8200
R763 10K
T711 EIS5EC008A
C736 0.01
C737 150P
R737 270K
C734 0.01
R739 680
FM DET.
Q714 2SD601 2SD602 (BUFFER)
C749 16V10
AUDIO LEVEL ADJ
VR751 5KB
C760 0.047
R757 2200
Q713 2SD1328(S,T)
D712 MA28W
C703 50V 2.2
QR701 UN2213
QR702 UN2213
(MUTING)
(P.B (H):ON)
R760 1000
R759 10K
R738 330K
QR714 UN2211
TV DEMODULATOR SECTION
2
3
4
5
6
7
8

IBER SHOWN ON THIS DRAWING FOR ORDERING.
ER IS SHOWN IN THE PARTS LIST, AND MAY BE
MENDED SINCE THIS DRAWING WAS PREPARED.

OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

9. MAIN C.B.A. (VEP03493Y)

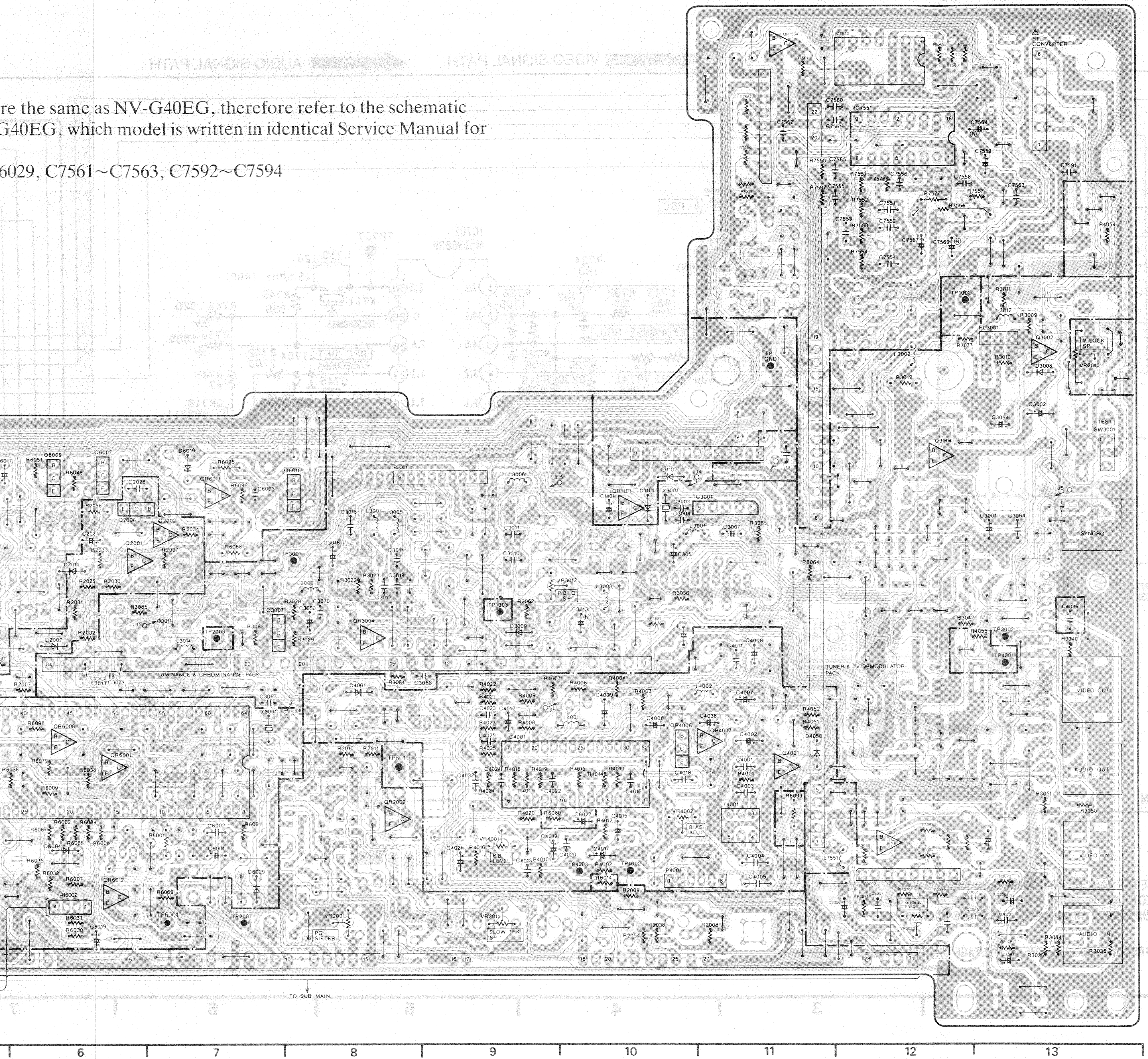


*Following parts are the same as NV-G40EG, therefore refer to the schematic diagrams of NV-G40EG, which model is written in identical Service Manual for NV-G40B.
FL301, C6028, C6029, C7561~C7563, C7592~C7594

MECHANISM CONNECTION C.B.A. (VEK3583)
TO MODE SW
TO SOLENOID
LED C.B.A. (VXA2689)
REEL SENSOR C.B.A. (VEK3555)
TO SAFETY TAB SW
PHOTO Tr. (T) C.B.A. (VEK3577)
PHOTO Tr. (S) C.B.A. (VEK3578)
TO CASSETTE SW
LUMINANCE & CHROMINANCE PACK
TUNER & TV DEMODULATOR PACK
TO SUB MAIN
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

re the same as NV-G40EG, therefore refer to the schematic
G40EG, which model is written in identical Service Manual for

6029, C7561~C7563, C7592~C7594



RF CONVERTER
TP GND1
TP1002
V LOCK SP
VR2010
TEST SW3001
SYNCRO
VIDEO OUT
AUDIO OUT
VIDEO IN
AUDIO IN
TUNER & TV DEMODULATOR PACK
LUMINANCE & CHROMINANCE PACK
TP3001
TP1003
P.B.C SP
VR3012
TP2009
TP3002
TP4001
TP6010
TP6001
TP2001
BIAS ADJ
P.B. LEVEL
TP4003
TP4002
VR2001
PG SIFTER
VR2011
SLOW TRK SP
TO SUB MAIN
6
7
8
9
10
11
12
13

MAIN C.B.A. ADDRESS INFORMATION

POWER SUPPLY Section	
Transistor & Resistor	
QR1101	D-10
Test Point	
TP1002	F-12
TP1003	D-9
TP GND 1	E-11
Connector	
P1101	E-10

ADDRESS INFORMATION

SYSTEM CONTROL Section	
Transistor	
Q1501	A-1
Q1502	A-2
Q6009	E-6
Q6016	E-8
Q6017	A-4
Q6018	B-4
Q6019	B-4
Q6020	B-4
Transistor & Resistor	
QR6001	C-6
QR6006	B-3
QR6007	E-6
QR6008	C-6
QR6011	E-7
QR6012	B-6
Integrated Circuit	
IC1501	C-2
IC6001	C-5
IC6002	B-5
IC6003	D-5
IC6004	C-5
Test Point	
TP6001	A-7
TP6010	B-8
TP GND2	C-5
Connector	
P1504	F-2
P1505	F-2
P1506	C-1
P1507	A-1
P1508	B-2
P6001	C-4
P6002	B-6
P6003	C-3

ADDRESS INFORMATION

SERVO Section	
Transistor	
Q2001	D-6
Q2002	D-7
Q2003	D-4
Q2004	D-5
Q2006	D-6
Transistor & Resistor	
QR2002	B-8
QR2007	D-5
QR2003	B-8
QR2006	B-8
QR2009	D-5
Test Point	
TP2001	A-7
TP2002	D-4
TP2009	C-7
Adjustment	
VR2001	A-8
VR2002	A-3
VR2010	E-13
VR2011	A-9

ADDRESS INFORMATION

LUMINANCE & CHROMINANCE Section	
Transistor	
Q3002	F-13
Q3004	E-12
Q3007	D-7
Q3013	B-12
Transistor & Resistor	
QR3004	D-8
Integrated Circuit	
IC3001	D-11
IC3002	B-12
Test Point	
TP3001	D-8
TP3002	C-13
Adjustment	
VR3012	D-10
VR3020	A-12
Connector	
P3001	E-8

ADDRESS INFORMATION

AUDIO Section	
Transistor	
Q4001	C-11
Transistor & Resistor	
QR4006	C-10
QR4007	C-11
Integrated Circuit	
IC4001	C-9
Test Point	
TP4001	C-13
TP4002	B-10
TP4003	B-10
Adjustment	
VR4001	B-9
VR4002	B-10
Connector	
P4001	B-10

ADDRESS INFORMATION

CH SELECT Section	
Transistor & Resistor	
QR7554	H-11
QR7561	C-3
Integrated Circuit	
IC7551	G-12
IC7552	G-11
IC7553	H-12
Test Point	
TP7517	B-4
TP7518	B-4
TP7519	C-4
Connector	
P7401	C-3
P7402	D-3

ADDRESS INFORMATION

PARTS LIST
MODEL NO.: NV-G40BI
1. NV-G40BI Electrical Replacement Parts List

(This parts list contains the Electrical Replacement Parts different from that of NV-G40B)

Note:
1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
   Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
   All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4. The P.C.Board units marked width'■'show below the main assembled parts.
5. Printed circuit board assembly with mark(NLA) is no longer available after discontinuation of the product.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03493Y	MAIN C.B.A.	1	(NLA)
		VEP02302B	SUB MAIN C.B.A.	1	(NLA)
		VEP03543D	LUMINANCE & CHROMINANCE	1	(NLA)
			PACK C.B.A.		
		VEP07444P	TV DEMODURATOR PACK C.B.A.	1	(NLA)
		VEP07434R	TIMER C.B.A.	1	(NLA)
		VEP06380E	IR RECEIVER C.B.A.	1	(NLA)
	■	VEP03493Y	MAIN C.B.A.		INCLUDING THE PARTS
					OF FOLLOWING C.B.A.
					VEP02302B,VEP03543D,
					VEP07444P
			CAPACITORS		
C301		ECEA1EKN2R2	E.CAPACITOR 25V 2.2U	1	
C302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C303		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C304		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C305		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C306		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C307		ECUM1H470JCN	CHIP 50V 47P	1	
C308		ECUM1H220JCN	CHIP 50V 22P	1	
C310		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C311,12		ECUM1H180JCN	CHIP 50V 18P	2	
C313		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C314		ECUM1H121JCN	CHIP 50V 120P	1	
C315		ECUM1H560JCN	CHIP 50V 56P	1	
C317		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C319		ECUM1H471KBN	CHIP 50V 470P	1	
C320		ECUM1H270JCN	CHIP 50V 27P	1	
C321		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C322		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C324		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C325,26		ECUM1H103ZFN	CHIP 50V 0.01U	2	
C327,28		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C329		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C331		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C332		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C333		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C334		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C335		ECUM1H680JCN	CHIP 50V 68P	1	
C336		ECUM1H101JCN	CHIP 50V 100P	1	
C337		ECUM1H270JCN	CHIP 50V 27P	1	
C338		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C339		ECUM1H680JCN	CHIP 50V 68P	1	
C340		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C349		ECUM1H470JCN	CHIP 50V 47P	1	
C351		ECCF1H220JC	C.CAPACITOR 50V 22P	1	
C352		ECQB1H562JH	P.CAPACITOR 50V 5600P	1	
C353		ECUM1H560JCN	CHIP 50V 56P	1	
C701,02		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C705		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	1	
C707		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C708		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C709		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	1	
C710		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C717-20		ECUX1H103ZFN	CHIP 50V 0.01U	4	
C721		ECEA1HKR27	E.CAPACITOR 50V 0.27U	1	
C722		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C723		ECUX1H180JCN	CHIP 50V 18P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C728		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C732		ECQV1H224B	M.CAPACITOR 50V 0.22U	1	
C734		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C735		ECUX1H070DCN	CHIP 50V 7P	1	
C736		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C737		ECUX1H151JCN	CHIP 50V 150P	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUX1H030CCN	CHIP 50V 3P	1	
C743		ECUM1H270RSN	CHIP 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUX1H680JPN	CHIP 50V 68P	1	
C746		ECUX1H150JCN	CHIP 50V 15P	1	
C747		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C748		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C760		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C781		ECUX1H220JCN	CHIP 50V 22P	1	
C782		ECUM1H060DCN	CHIP 50V 6P	1	
C786		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C801		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C814		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C815		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C816		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C817		ECQV1H124JZ	P.CAPACITOR 50V 0.12U	1	
C818		ECUM1H471KBN	CHIP 50V 470P	1	
C819		ECUM1H820JCN	CHIP 50V 82P	1	
C820		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C821		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C823		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C824		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C825		ECUM1H101JCN	CHIP 50V 100P	1	
C826		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C827		ECUM1H050CCN	CHIP 50V 5P	1	
C828		ECUM1H102KBN	CHIP 50V 1000P	1	
C829		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C831,32		ECUX1E104ZFN	CHIP 25V 0.1U	2	
C1101		ECEA1EK100	E.CAPACITOR 25V 10U	1	
C2022		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2023		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2024		ECUM1H182KBN	CHIP 50V 1800P	1	
C2026		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C2027		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2101		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2102		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2103		ECUM1H562KBN	CHIP 50V 5600P	1	
C2104		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2105		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C2106		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2107		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2108		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2109		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2110		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2112		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2113		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2114		ECUM1H102KBN	CHIP 50V 1000P	1	
C2115		ECEA1HKNR33	E.CAPACITOR 50V 0.33U	1	
C2116		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2117		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2118		ECUM1H472KBN	CHIP 50V 4700P	1	
C2119		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C2120		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C2121		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2122		ECUM1H562KBN	CHIP 50V 5600P	1	
C2124,25		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C2126		ECUM1E103KBN	CHIP 25V 0.01U	1	
C2127		ECUM1H222KBN	CHIP 50V 2200P	1	
C2129		ECQV1H394JZ	P.CAPACITOR 50V 0.39U	1	
C2130		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2131		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2132		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2133		ECUM1H332KBN	CHIP 50V 3300P	1	
C2134		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C2135		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2137		ECUM1H562KBN	CHIP 50V 5600P	1	
C2138		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C2139		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2140		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2141		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2142,43		ECUM1H103ZFN	CHIP 50V 0.01U	2	
C2144		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C2145		ECUM1H562KBN	CHIP 50V 5600P	1	
C2146		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2148		ECUM1H102KBN	CHIP 50V 1000P	1	
C2150		VCYD1E223KR	S.CAPACITOR 25V 0.022U	1	
C2151		ECKF1H332KB	C.CAPACITOR 50V 3300P	1	
C2153		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C2154		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C2155		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C2158		ECUM1E103KBN	CHIP 25V 0.01U	1	
C2172		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C2173		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2183		ECUM1H562KBN	CHIP 50V 5600P	1	
C2187		ECUM1E103KBN	CHIP 25V 0.01U	1	
C2501-03		ECQB1H333JH	P.CAPACITOR 50V 0.033U	3	
C2504-06		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2507		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C2508		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2511		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2512-14		ECUM1H332KBN	CHIP 50V 3300P	3	
C2517		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C2519		ECEA25Z47	E.CAPACITOR 25V 4.7U	1	
C2901		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2902-04		ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	3	
C2905		ECQB1H473JH	P.CAPACITOR 50V 0.047U	1	
C2906		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C2907		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2908-10		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	3	
C2911		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2912		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3001		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3003,04		ECUM1H332KBN	CHIP 50V 3300P	2	
C3007		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3010		ECUM1H151JCN	CHIP 50V 150P	1	
C3011		ECUM1H270JCN	CHIP 50V 27P	1	
C3012		ECUM1H681JN	CHIP 50V 680P	1	
C3013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3014		ECUM1H150JCN	CHIP 50V 15P	1	
C3015		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3016		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3019		ECUM1H220JCN	CHIP 50V 22P	1	
C3051		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3053		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C3054		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3055		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C3056		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3057		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3058		ECQB1H392JH	P.CAPACITOR 50V 3900P	1	
C3059		ECQP1562JZ	P.CAPACITOR 100V 5600P	1	
C3060		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C3061		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C3062,63		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C3064		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3067,68		ECUM1H103ZFN	CHIP 50V 0.01U	2	
C3070		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C3073		ECCF1H390JC	C.CAPACITOR 50V 39P	1	
C3074		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C4001		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C4002		ECEA16Z33	E.CAPACITOR 16V 33U	1	
C4003		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C4004		ECQP1332JZ	M.CAPACITOR 100V 3300P	1	
C4005		ECCD2H121K	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4011		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H471KBN	CHIP 50V 470P	1	
C4015		ECEA1CKL100	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	CHIP 50V 1000P	1	
C4017		ECEA16M10	ELECTROLYTIC 16V 10U	1	
C4018		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	CHIP 50V 1000P	1	
C4021		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C4022		ECUM1H102KBN	CHIP 50V 1000P	1	
C4023		ECUX1H221JCN	CHIP 50V 220P	1	
C4024,25		ECUM1H101JCN	CHIP 50V 100P	2	
C4032		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4039		VCYD1E103KR	S.CAPACITOR 25V 0.01U	1	
C6001		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6002		VCYD1C103MR1	S.CAPACITOR 16V 0.01U	1	
C6003		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C6006		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6007		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6013		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C6017-19		ECEA0JK470	E.CAPACITOR 6.3V 47U	3	
C6020		ECUM1H103KBN	CHIP 50V 0.01U	1	
C6023		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C6024-26		ECUM1H271KBN	CHIP 50V 270P	3	
C6027		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C6028		ECUM1H102KBN	CHIP 50V 1000P	1	
C6029		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7551		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7552		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7553		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7554		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7555,56		ECUM1H103ZFN	CHIP 50V 0.01U	2	
C7557		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7558		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7559		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7560-63		ECUM1H103ZFN	CHIP 50V 0.01U	4	
C7564		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7565		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7569		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7571		EECS5R5V473	E.CAPACITOR 5.5V 0.047	1	
C7590		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C7591		ECUM1H102KBN	CHIP 50V 1000P	1	
C7592		ECUM1H560JCN	CHIP 50V 56P	1	
C7593,94		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	2	
D301		MA4091M	DIODE	1	
D710		MA3100L	DIODE	1	
D712		MA28W	DIODE	1	
D771		MA151WK	DIODE	1	
D1101,02		MA165	DIODE	2	
D2007		MA165	DIODE	1	
D2014		MA165	DIODE	1	
D2101-05		MA165	DIODE	5	
D3008,09		MA165	DIODE	2	
D4001		MA165	DIODE	1	
D4050		MA165	DIODE	1	
D6001		ERA15-01	DIODE	1	
D6002		MA165	DIODE	1	
D6004		MA165	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D6017		ERA15-01	DIODE	1	
D6019		MA4150M	DIODE	1	
D6023,24		MA165	DIODE	2	
D6028,29		MA165	DIODE	2	
D6030		MA4056L	DIODE	1	
D6032		MA165	DIODE	1	
DL802		VLD0148	DELAY	1	
FL301		ELB4M022	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0567	FILTER	1	
FL801		VLF0299	FILTER	1	
FL3001		VLF0413	FILTER	1	
IC301		VEFH03D	HIC	1	
IC303		MSM6965-3RS	IC	1	
IC701		M51366SP	IC	1	
IC801		VEFH04A	HIC	1	
IC2101		UPD6160CA607	IC	1	
IC2102		UPD6161CA604	IC	1	
IC2103		AN6562	IC	1	
IC2501		BA6432S	IC	1	
IC2901		AN3814K	IC	1	
IC3001		BA7004	IC	1	
IC3002		AN5421N	IC	1	
IC4001		BA7766AS	IC	1	
IC6001		MN15362VNK	IC	1	
IC6002		AN6914	IC	1	
IC6003		MN4510B	IC	1	
IC6004		MN12821	IC	1	(R)
IC7551		AN5043	IC	1	
IC7552		AN6913	IC	1	
IC7553		MN4066B	IC	1	
L301		VLQEL05F101K	COIL 100UH	1	
L302		VLQEL05F220K	COIL 22UH	1	
L303,04		VLQEL05F101K	COIL 100UH	2	
L306		VLQEL05F101K	COIL 100UH	1	
L307		VLQEL05F151K	COIL 150UH	1	
L308		VLQEL05F270K	COIL 27UH	1	
L309,10		VLQEL05F101K	COIL 100UH	2	
L311		VLQEL05F2R2K	COIL 2.2UH	1	
L701		ELESP680KA	COIL 68UH	1	
L711		VLQ0305JR47	COIL 0.47UH	1	
L713		VLQ0305JR68	COIL 0.68UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP680KA	COIL 68UH	1	
L804		VLQEL05F150K	COIL 15UH	1	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F681K	COIL 680UH	1	
L808		VLQEL05F470K	COIL 47UH	1	
L809		VLQEL05F331K	COIL 330UH	1	
L810		VLQEL05F101K	COIL 100UH	1	
L811		VLQEL05F470K	COIL 47UH	1	
L812		VLQEL05F681K	COIL 680UH	1	
L2501		VLQEL05F102K	COIL 1000UH	1	
L2502		VLQ0128	COIL 47UH	1	
L3001-03		VLQEL05F101K	COIL 100UH	3	
L3005		VLQEL05F120K	COIL 12UH	1	
L3006		VLQEL05F5R6K	COIL 5.6UH	1	
L3007		VLQEL05F101K	COIL 100UH	1	
L3008		VLQEL05F3R3K	COIL 3.3UH	1	
L3012		VLQEL05F101K	COIL 100UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L3013		VLQEL05F390K	COIL 39UH	1	
L3014		VLQEL05F470K	COIL 47UH	1	
L4001		VLQEL07F822J	COIL 8200UH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L7551		VLQEL05F680K	COIL 68UH	1	
P006		VJS1902	CONNECTOR (FEMALE)	1	
P501		VJS1236T	CONNECTOR (FEMALE)	1	
P1001		VJF0171T	CONNECTOR	1	
P1101		VJF0171R	CONNECTOR	1	
P1101		VJP1393T	CONNECTOR (MALE) 13P	1	
P2001		VJP1235T	CONNECTOR (MALE) 8P	1	
P2001		VJS1235T	CONNECTOR (FEMALE)	1	
P2002		VJP1932T	CONNECTOR (MALE)	1	
P2002		VJS1932	CONNECTOR (FEMALE)	1	
P2901		VJS1237T	CONNECTOR	1	
P3001		VJP1236T	CONNECTOR (MALE) 9P	1	
P3001		VJS1236T	CONNECTOR (FEMALE)	1	
P4001		VJP1233T	CONNECTOR (MALE) 6P	1	
P6001		VJS2157W	CONNECTOR (FEMALE)	1	
P6002		VJS2149W	CONNECTOR (FEMALE)	1	
P6003		VJS2152W	CONNECTOR (FEMALE)	1	
P7401		VJS1475	CONNECTOR (FEMALE)	1	
P7402		VJS2157W	CONNECTOR (FEMALE)	1	
Q301		2SB709	TRANSISTOR CHIP	1	
Q302,03		2SC2295	TRANSISTOR CHIP	2	(B,C)
Q304		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q703		2SD601	TRANSISTOR	1	(S,T)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR	1	
Q714		2SD601	TRANSISTOR CHIP	1	
Q771		2SD601	TRANSISTOR CHIP	1	
Q772,73		2SK198	TRANSISTOR CHIP	2	
Q804		2SB709	TRANSISTOR CHIP	1	
Q2001		2SB709	TRANSISTOR CHIP	1	
Q2002-04		2SD601	TRANSISTOR CHIP	3	
Q2006		2SD1330	TRANSISTOR	1	(S,T)
Q2101,02		2SD601	TRANSISTOR CHIP	2	
Q2108		2SD601	TRANSISTOR CHIP	1	
Q2111,12		2SD601	TRANSISTOR CHIP	2	
Q3002		2SC2295	TRANSISTOR	1	
Q3004		2SB709	TRANSISTOR CHIP	1	
Q3006		2SC2295	TRANSISTOR	1	
Q3007		2SB641	TRANSISTOR	1	
Q3013		2SD601	TRANSISTOR CHIP	1	
Q4001		2SD602	TRANSISTOR	1	(R)
Q6007		2SB643	TRANSISTOR	1	
Q6009		2SB643	TRANSISTOR	1	(R,S)
Q6016		2SD1275	TRANSISTOR	1	(P,Q)
Q6017		2SD893	TRANSISTOR	1	
Q6018		2SD973	TRANSISTOR	1	(S)
Q6019		2SD638	TRANSISTOR	1	
Q6020		2SD973	TRANSISTOR	1	(S)
QR701,02		UN2213	TRANSISTOR-RESISTOR	2	
QR711,12		UN2212	TRANSISTOR-RESISTOR	2	
QR713,14		UN2211	TRANSISTOR-RESISTOR	2	
QR1101		UN2213	TRANSISTOR-RESISTOR	1	
QR2002		UN2212	TRANSISTOR-RESISTOR	1	
QR2007		UN2213	TRANSISTOR-RESISTOR	1	
QR2101,02		UN2113	TRANSISTOR-RESISTOR	2	
QR2104		UN2110	TRANSISTOR-RESISTOR	1	
QR2105		UN2117	TRANSISTOR-RESISTOR	1	
QR2106		UN2115	TRANSISTOR-RESISTOR	1	
QR3004		UN2111	TRANSISTOR-RESISTOR	1	
QR6001		UN2212	TRANSISTOR-RESISTOR	1	
QR6006		UN2111	TRANSISTOR-RESISTOR	1	
QR6008		UN2119	TRANSISTOR-RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR6011		UN2212	TRANSISTOR-RESISTOR	1	
QR6012		UN2113	TRANSISTOR-RESISTOR	1	
QR7554		UN2213	TRANSISTOR-RESISTOR	1	
QR7561		UN2211	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R301		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R302		ERJ6GMYJ391	CHIP 1/16W 390	1	
R303		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R304		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R305		ERJ6GMYJ824	CHIP 1/16W 820K	1	
R306		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R307		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R308		ERJ6GMYJ123	CHIP 1/16W 12K	1	
R309		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R310		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R311		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R312		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R316		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R317		ERJ6GMYJ471	CHIP 1/16W 470	1	
R325		ERJ6GMYJ151	CHIP 1/16W 150	1	
R326		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R327		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R328		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R329		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R330		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R331		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R332		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R334,35		ERJ6GMYJ102	CHIP 1/16W 1K	2	
R338		ERJ6GMYJ474	M.RESISTOR CH1/16W 470K	1	
R339		ERJ6GMYJ101	CHIP 1/16W 100	1	
R707		ERJ6GEYJ223	CHIP 1/16W 22K	1	
R716		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	
R717		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R718		ERJ6GEYJ754	CHIP 1/16W 750K	1	
R719		ERJ6GEYJ682	CHIP 1/16W 6.8K	1	
R720		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R721		ERJ6GEYJ392	CHIP 1/16W 3.9K	1	
R722		ERJ6GEYJ472	CHIP 1/16W 4.7K	1	
R723		ERJ6GEYJ183	CHIP 1/16W 180K	1	
R724		ERJ6GEYJ101	CHIP 1/16W 100	1	
R725		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R726		ERJ6GEYJ472	CHIP 1/16W 4.7K	1	
R727		ERJ6GEYJ471	CHIP 1/16W 470	1	
R728		VRE0040E471T	V.RESISTOR 470	1	
R729,30		ERJ6GEYJ331	CHIP 1/16W 330	2	
R737		ERJ6GEYJ274	CHIP 1/16W 270K	1	
R738		ERJ6GEYJ334	CHIP 1/16W 330K	1	
R739		ERJ6GEYJ681	CHIP 1/16W 680	1	
R740		ERJ6GEYJ473	CHIP 1/16W 47K	1	
R741,42		ERJ6GEYJ272	CHIP 1/16W 2.7K	2	
R743		ERJ6GEYJ470	CHIP 1/16W 47	1	
R744		ERJ6GEYJ821	CHIP 1/16W 820	1	
R745		ERJ6GEYJ331	CHIP 1/16W 330	1	
R746		VRE0040E151T	V.RESISTOR 150	1	
R750		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R757		ERJ6GEYJ222	CHIP 1/16W 2.2K	1	
R759		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R760		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R763		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R764		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R772		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R773		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R774		ERJ6GEYJ333	CHIP 1/16W 33K	1	
R775		ERJ6GEYJ474	CHIP 1/16W 470K	1	
R776		ERJ6GEYJ105	CHIP 1/16W 1M	1	
R777		ERJ6GEYJ184	CHIP 1/16W 180K	1	
R778		ERJ6GEYJ105	CHIP 1/16W 1M	1	
R779		ERJ6GEYJ104	CHIP 1/16W 100K	1	
R781		ERJ6GEYJ271	CHIP 1/16W 270	1	
R782		ERJ6GMYJ821	CHIP 1/16W 820	1	
R785		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R792		ERJ6GEYJ120	CHIP 1/16W 12	1	
R815		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R816		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R818		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R819		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R820		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R821,22		ERJ6GMYJ103	CHIP 1/16W 10K	2	
R823		ERJ6GMYJ271	CHIP 1/16W 270	1	
R824		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R825		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R826		ERJ6GMYJ681	CHIP 1/16W 680	1	
R1101		ERJ6GMY0R00	M.RESISTOR CH1/16W 0.00	1	
R2007		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R2008		ERJ6GMYG682	CHIP 1/16W 6.8K	1	
R2009		ERJ6GMYG512	CHIP 1/16W 5.1K	1	
R2010		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R2011		ERJ6GMYJ561	CHIP 1/16W 560	1	
R2029		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2030		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R2031		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R2032		ERJ6GMYJ124	CHIP 1/16W 120K	1	
R2033		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2034		ERJ6GMYJ391	CHIP 1/16W 390	1	
R2037		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2038		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R2046		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R2047,48		ERJ6GMYJ154	CHIP 1/16W 150K	2	
R2049		ERJ6GMYJ273	CHIP 1/16W 27K	1	
R2050		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2051		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R2054		ERJ6GMY0R00	M.RESISTOR CH1/16W 0.00	1	
R2056		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R2101		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R2102		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R2103		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2104		ERJ6GMYJ221	CHIP 1/16W 220	1	
R2105		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2106		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R2107		ERJ6GMYJ101	CHIP 1/16W 100	1	
R2108		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R2109		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R2110		ERJ6GMYJ274	CHIP 1/16W 270K	1	
R2111		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R2112,13		ERJ6GMYJ154	CHIP 1/16W 150K	2	
R2114		ERJ6GMYJ105	CHIP 1/16W 1M	1	
R2115		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R2117		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2119		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R2120		ERJ6GMYJ274	CHIP 1/16W 270K	1	
R2121		ERJ6GMY0R00	M.RESISTOR CH1/16W 0.00	1	
R2122,23		ERJ6GMYJ332	CHIP 1/16W 3.3K	2	
R2124		ERJ6GMYJ561	CHIP 1/16W 560	1	
R2125		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R2126		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2127		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2128		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R2129		ERJ6GMYJ221	CHIP 1/16W 220	1	
R2130,31		ERJ6GMYJ152	CHIP 1/16W 1.5K	2	
R2134		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R2135		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R2136,37		ERJ6GMYJ154	CHIP 1/16W 150K	2	
R2138		ERJ6GMYJ124	CHIP 1/16W 120K	1	
R2139		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R2140		ERJ6GMYG333	CHIP 1/16W 33K	1	
R2141		ERJ6GMYJ684	CHIP 1/16W 680K	1	
R2142		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R2143		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2146		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2147		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R2148		ERJ6GMYG102	CHIP 1/16W 1K	1	
R2150		ERJ6GMYJ821	CHIP 1/16W 820	1	
R2153		ERJ6GMYJ684	CHIP 1/16W 680K	1	
R2157		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R2158		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2159,60		ERJ6GMYJ223	CHIP 1/16W 22K	2	
R2161		ERJ6GMYJ183	CHIP 1/16W 18K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2166,67		ERJ6GMYJ563	CHIP 1/16W 56K	2	
R2168,69		ERJ6GMYJ223	CHIP 1/16W 22K	2	
R2174		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2177		ERJ6GMYJ681	CHIP 1/16W 680	1	
R2178		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R2179		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2501-03		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2504		ERX12SJ1R0	M.RESISTOR 1/2W 1	1	
R2505		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2506		ERJ6GMYG562	CHIP 1/16W 5.6K	1	
R2518		ERJ6GMYJ330	CHIP 1/16W 33	1	
R2901-03		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2906		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R2907		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R3009		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R3010		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R3011		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R3018		ERJ6GMY0R00	M.RESISTOR CH1/16W 0.00	1	
R3019		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3022,23		ERJ6GMYJ821	CHIP 1/16W 820	2	
R3028		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R3029		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R3030		ERJ6GMYJ750	CHIP 1/16W 75	1	
R3034		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R3035		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R3036		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R3040		ERJ6GMYJ750	CHIP 1/16W 75	1	
R3042		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R3050,51		ERJ6GMYJ750	CHIP 1/16W 75	2	
R3054		ERJ6GMY0R00	M.RESISTOR CH1/16W 0.00	1	
R3062		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R3063		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R3064		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R3065		ERJ6GMYJ561	CHIP 1/16W 560	1	
R3066		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R3067		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R3068		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R3069		ERJ6GMYJ151	CHIP 1/16W 150	1	
R3070		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R3071		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R3072		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R3073		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R3074		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R3075		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R3076		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R3077		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R3081		ERJ6GMYJ273	CHIP 1/16W 27K	1	
R3084		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R3085		ERJ6GMYJ221	CHIP 1/16W 220	1	
R4001		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R4002		ERJ6GMYJ100	CHIP 1/16W 10	1	
R4003		ERJ6GMYJ203	CHIP 1/16W 2K	1	
R4004		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R4005		ERJ6GMY0R00	M.RESISTOR CH1/16W 0.00	1	
R4006		ERJ6GMYJ151	CHIP 1/16W 150	1	
R4007		ERJ6GMYJ221	CHIP 1/16W 220	1	
R4008		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R4009		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R4010		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R4012		ERJ6GMYJ331	CHIP 1/16W 330	1	
R4013		ERJ6GMYJ334	CHIP 1/16W 330K	1	
R4014		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R4015		ERJ6GMY0R00	M.RESISTOR CH1/16W 0.00	1	
R4016		ERJ6GMYJ105	CHIP 1/16W 1M	1	
R4017		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R4018		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R4019		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R4020		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R4021		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R4022		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R4023		ERJ6GMYG473	CHIP 1/16W 47K	1	
R4024,25		ERJ6GMYG104	CHIP 1/16W 100K	2	
R4051		ERJ6GMYJ123	CHIP 1/16W 12K	1	
R4052		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R4054		ERJ6GMYJ102	CHIP 1/16W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4055		ERJ6GMYJ681	CHIP 1/16W 680	1	
R6001		ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R6002		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R6006		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6007		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R6008		ERJ6GMYJ181	CHIP 1/16W 180	1	
R6009		ERJ6GMYJ561	CHIP 1/16W 560	1	
R6010		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R6011		ERJ6GMYJ221	CHIP 1/16W 220	1	
R6014		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R6017		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R6023		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R6024		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R6027		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R6028		ERJ6GMYJ184	CHIP 1/16W 180K	1	
R6029		ERJ6GMYJ561	CHIP 1/16W 560	1	
R6030,31		ERJ6GMYJ153	CHIP 1/16W 15K	2	
R6032		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R6033,34		ERJ6GMYJ333	CHIP 1/16W 33K	2	
R6035-37		ERJ6GMYJ101	CHIP 1/16W 100	3	
R6038		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R6041		ERJ6GMYJ391	CHIP 1/16W 390	1	
R6046		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R6050		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R6051		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R6060		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R6067		ERJ6GMYJ101	CHIP 1/16W 100	1	
R6068		ERDS1TJ332	C.RESISTOR 1/2W 3.3K	1	
R6069		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R6070		ERJ6GMYJ471	CHIP 1/16W 470	1	
R6071		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R6072		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R6073		ERJ6GMYJ131	CHIP 1/16W 130	1	
R6074		ERJ6GMYJ221	CHIP 1/16W 220	1	
R6075		ERG3SJ220	M.RESISTOR 3W 22	1	
R6079		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R6083		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R6084,85		ERJ6GMYJ561	CHIP 1/16W 560	2	
R6087-89		ERJ6GMYJ272	CHIP 1/16W 2.7K	3	
R6090		ERJ6GMYJ821	CHIP 1/16W 820	1	
R6091		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R6093		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R6095		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R6096		ERJ6GMYJ681	CHIP 1/16W 680	1	
R6098		ERJ6GMYJ101	CHIP 1/16W 100	1	
R6099		ERJ6GMYJ201	CHIP 1/16W 200	1	
R7551,52		ERJ6GMYJ473	CHIP 1/16W 47K	2	
R7553		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R7554		ERJ6GMYJ124	CHIP 1/16W 120K	1	
R7555		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7556		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7557		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7558		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R7561,62		ERJ6GMYJ473	CHIP 1/16W 47K	2	
R7563		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R7564		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R7565		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7566		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R7567		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R7568		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R7577		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7578		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R7583		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7595		ERJ6GMYJ181	CHIP 1/16W 180	1	
R7597		ERJ6GMYJ102	CHIP 1/16W 1K	1	
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A1	TRANSFORMER	1	
T711		EIS5EC008A	TRANSFORMER	1	
T4001		EIQ7QF014Q	TRANSFORMER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR302		EVN3ACA00B14	V.RESISTOR 10K	1	
VR701,02		EVNDRAA00B23	V.RESISTOR 2K	2	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR751		EVNDRAA00B53	V.RESISTOR 5K	1	
VR803		EVNDRAA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2002		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2010		EVL51MA00B25	V.RESISTOR 200K	1	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR3012		EVNDRAA00B52	V.RESISTOR 500	1	
VR3020		EVN38CA00B23	V.RESISTOR 2K	1	
VR4001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X710		EFCH38MSP11	CRYSTAL OSCILLATOR	1	
X711		EFCS6R0MW5	CRYSTAL OSCILLATOR	1	
X712		EFCS6R0MS5	CRYSTAL OSCILLATOR	1	
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X3001		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0204	CRYSTAL OSCILLATOR	1	
X7504		VSQ0565	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VSC1068	HEAT SINK	1	FOR Q6016
		VWJ0228	FLEXIBLE WIRE 13P	1	
		VEJ0633	REAR JACK BOARD	1	
		VSC1689	HEAT SINK	1	FOR IC2501
		VMC0075	HEAT SINK FIX SPRING	1	FOR IC2501
		VMZ1130	HEAT SINK COVER	1	FOR IC2501
		VSC2232	SHIELD CASE (TOP)	1	FOR TV DEMODU PACK
		VSC2233	SHIELD CASE (MAIN).	1	FOR TV DEMODU PACK
		VSC2396	SHIELD CASE (BOTTOM)	1	FOR TV DEMODU PACK
	■	VEP07434R	TIMER C.B.A.		INCLUDING THE PARTS
					OF FOLLOWING C.B.A.
					VEP06380E
			CAPACITORS		
C6701		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6702		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6704		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA030E41	TRIMER 30P	1	
C7502		ECUM1H050DCN	CHIP 50V 5P	1	
C7503		ECUX1H104ZFN	CHIP 50V 0.1U	1	
C7504		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7505,06		ECUM1H220JCN	CHIP 50V 22P	2	
C7508		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7509		ECUM1H331KBN	CHIP 50V 330P	1	
C7510		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7511		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7520		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C7521		ECUM1H102KBN	CHIP 50V 1000P	1	
C7522,23		ECUM1H561KBN	CHIP 50V 560P	2	
D6701		PN323B	PHOTO DIODE	1	
D7501		ERA15-01	DIODE	1	
D7502		1SS119-04	DIODE	1	
D7503		MA4056	DIODE	1	
D7506-14		1SS119-04	DIODE	9	
D7515		LN28RCPP	LED	1	
D7516		LN38GCPPSVT	LED	1	
D7526,27		1SS119-04	DIODE	2	
D7531		1SS119-04	DIODE	1	
D7534,35		1SS119-04	DIODE	2	
D7539,40		1SS119-04	DIODE	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
DP7501		VSL0117	DISPLAY TUBE	1	
IC6701		UPC1490HA	IC	1	
IC7501		M50935V4AD	IC	1	
IC7502		MN1220	IC	1	
IC7503		MN1280P	IC	1	
IC7505		MN1280T	IC	1	
L7501		VLQEL05F221K	COIL 220UH	1	
P7501		VJS1903	CONNECTOR (FEMALE)	1	
P7502		VJS1491	CONNECTOR (FEMALE)	1	
P7503		VJS1451	CONNECTOR (FEMALE)	1	
Q7501		2SD637	TRANSISTOR	1	(Q,R,S)
QR7501		UN2112	TRANSISTOR-RESISTOR	1	
QR7509		UN2113	TRANSISTOR-RESISTOR	1	
QR7510,11		UN2213	TRANSISTOR-RESISTOR	2	
			RESISTORS		
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R7501		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R7502		ERJ6GMYJ224	CHIP 1/16W 220K	1	
R7503		ERJ6GMYJ105	CHIP 1/16W 1M	1	
R7504		ERJ6GMYK106	CHIP 1/16W 10M	1	
R7505		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7506,07		ERJ6GMYJ222	CHIP 1/16W 2.2K	2	
R7509		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R7510		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7511-14		ERJ6GMYJ103	CHIP 1/16W 10K	4	
R7515		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R7519		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R7520-23		ERJ6GMYJ103	CHIP 1/16W 10K	4	
R7524-31		ERJ6GMYJ182	CHIP 1/16W 1.8K	8	
R7532		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7533		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R7535		ERDS1TJ8R2	C.RESISTOR 1/2W 8.2	1	
R7536		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7540,41		ERJ6GMYJ181	CHIP 1/16W 180	2	
R7543		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R7545		ERJ6GMYJ221	CHIP 1/16W 220	1	
R7546		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7547		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7548,49		ERJ6GMYJ473	CHIP 1/16W 47K	2	
R7550		ERJ6GMYJ561	CHIP 1/16W 560	1	
SW7501-04		EVQQS307K	SWITCH	4	
SW7507		EVQQS307K	SWITCH	1	
SW7509,10		EVQQS307K	SWITCH	2	
SW7512-30		EVQQS307K	SWITCH	19	
VR6701		EVMLGGA00B15	V.RESISTOR 100K	1	

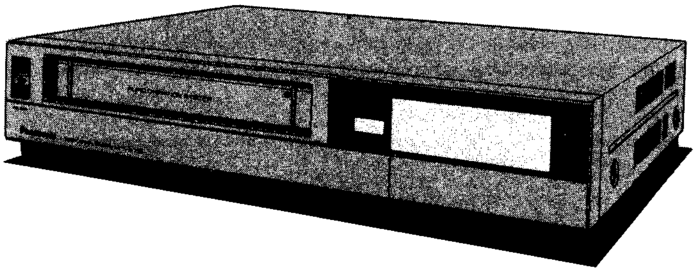
Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMD0504	LED HOLDER	1	FOR D7515
		VMD1047	LED HOLDER	1	FOR D7516
		VJF0548	DISPLAY TUBE HOLDER	1	FOR DP7501
		VSC1844	SHIELD CASE (TOP)	1	FOR VEP06380E
		VSC1928	SHIELD CASE (MAIN)	1	FOR VEP06380E
		VSC1929	SHIELD CASE (BOTTOM)	1	FOR VEP06380E

ORDER NO. VRD8801M102

Service Manual

Video Cassette Recorder
Panasonic VHS PAL HQ
NV-G45EG B

General Description
Adjustment Procedures
Block / Schematic Diagrams
Exploded Views / Parts List



SPECIFICATIONS

ITEM	SPECIFICATION	
POWER	SOURCE: 220 V 50/60 Hz (NV-G45EG) 240 V 50/60 Hz (NV-G45B)	
	CONSUMPTION: 25 W (NV-G45EG) 23 W (NV-G45B)	
RECORDING SYSTEM	2 rotary heads, helical scanning system	
	PAL	
TV TUNER SYSTEM	NV-G45EG	VHF I : CHE2~CHE4 VHF III: CHS4~CHE12 VHF H: CHS11~CHS41 (PAL/SECAM B) 75Ω unbalanced UHF: CH21~CH69 (PAL/SECAM G) 75Ω unbalanced
	NV-G45B	UHF: CH21~CH69 (PAL I) 75Ω unbalanced
RF OUT SYSTEM	UHF: CH36±4 (PAL/SECAM G) 73^{+2}_{3}dBμ, 75Ω terminated (NV-G45EG) UHF: CH36±4 (PAL I) 73±3dBμ, 75Ω terminated (NV-G45B)	
VIDEO	HEADS: 4 rotary heads 1 pair for recording, playback (L-R heads) 1 pair for trick play (L′-R′ heads)	
	INPUT: VIDEO IN Connector (BNC type) 1.0 Vp-p, 75Ω terminated EURO AV Connector (21 pin) 1.0 Vp-p, 75Ω terminated (NV-G45EG)	
	OUTPUT: VIDEO OUT Connector (BNC type) 1.0 Vp-p, 75Ω terminated (NV-G45B) EURO AV Connector (21 pin) 1.0 Vp-p, 75Ω terminated (NV-G45EG)	

ITEM	SPECIFICATION
AUDIO	HEAD: 1 Stationary head (Normal Audio)
	INPUT: AUDIO IN Connector (Phono type) More than −10dBV (316mV), more than 50kΩ EURO AV Connector (21 pin) More than −10dBV (316mV), more than 10kΩ (NV-G45EG)
	OUTPUT: AUDIO OUT Connector (Phono type) −8dBV (400mV), Less than 1kΩ (NV-G45B) EURO AV Connector (21 pin) −6dBV (500mV), Less than 1kΩ (NV-G45EG)
TAPE FORMAT	VHS Cassette tape (Tape width 12.7 mm)
TAPE SPEED	SP: 23.39 mm/s LP: 11.695 mm/s Record/Playback Time: SP: 4 hours with 240 min. type tape LP: 8 hours with 240 min. type tape FF/REW Time 5.5 min. with 180 min. type tape
DIMENSIONS	380(W) × 82(H) × 343(D) mm
WEIGHT	5.0 kg (NV-G45EG) 4.9 kg (NV-G45B)
STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red remote controller 1 pc. Digital Scanner Case 1 pc. Digital Scanner 1 pc. Programme sheet 1 pc. AC Mains Lead 1 pc. Cleaning Brush

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service this model.
Section 1 presents you with some general information of features and controls, enabling you to become familiar with each function.
Section 2 contributes to your mechanical and electrical adjustment as well disassembly and replacement procedures.
In the case of very common information relating to other models like mechanical adjustments, please refer to each service manual.
Section 3 contains block diagrams which offers you information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c...
Section 4 contains exploded views and parts list.
Please place orders using the parts list and not the drawing reference numbers.
If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

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Technical Informatio

Subject: How to make easier servicing

We are pleased to inform you how to make easier servicing of NV−G45EG/B.

1. HOW TO MAKE EASIER SERVICING OF A PACKED CIRCUIT

In the case of the Luminance & Chromunance Pack and Sub Main C.B.A., you can remove the Main C.B.A. from its frame. At that time unlock the 2 Hinges and lift up paying attention not touch any other portion as shown in Fig. T1 and Fig. T2.

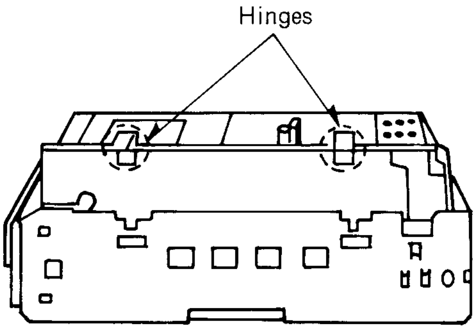


Fig. T1

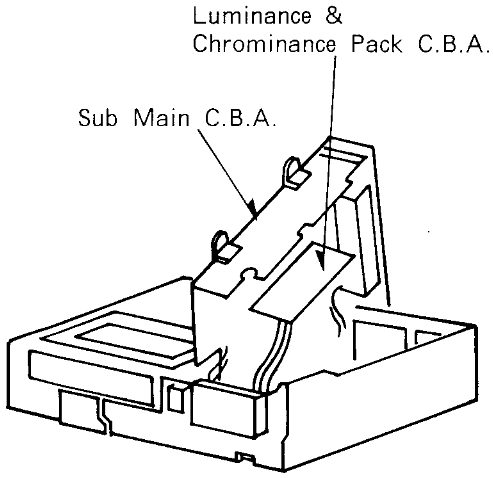
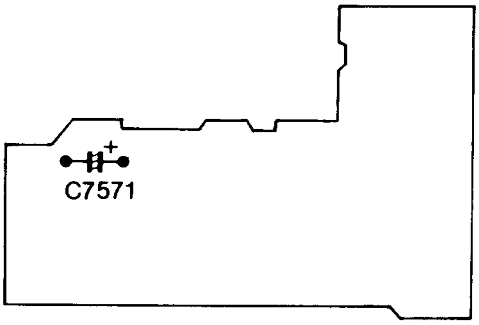


Fig. T2

2. HOW TO CHECK OR REPLACE THE TIMER CIRCUIT

When checking or replacing the Timer circuit, th following steps should be followed to protect thi circuit.

(1) Disconnect the AC mains.
(2) Make a short circuit at C7571 by connecting wire to both lead wires of the C7571.



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MECHANICAL REPLACEMENT PARTS LIST
ELECTRICAL REPLACEMENT PARTS LIST

REMARKS (NV-G45EG West Germany model only)

1. It is possible to receive, record and play back colour broadcasts from East Germany (DDR) on this video recorder.
2. When a video tape that was recorded with a colour TV broadcast from East Germany on this VTR is played back on a SECAM (France) or a PAL VTR, the picture may be in black and white.
3. When a video tape recorded on a SECAM (France) VTR or a SECAM (France) pre-recorded video tape is played back on this VTR, the picture is in black and white.

3. HOW TO USE THE UPPER CYLINDER REMOVER

The newly developped Upper Cylinder Remover is usefull to remove the upper cylinder easily, especially when it is too hard to remove by hand, Removing procedure is also as described below.

(1) Remove 2 screws (A), then unsolder the soldered portions indicated by arrows as shown in Fig. T4.
(2) Set the screws of Upper Cylinder Remover into holes (B), then tighten the screws of Upper Cylinder Remover fully.
(3) Turn the handle of Upper Cylinder Remover clockwise holding the upper cylinder firmly until it is removed.
(Upper Cylinder is lifted up gradually during turning the handle.)

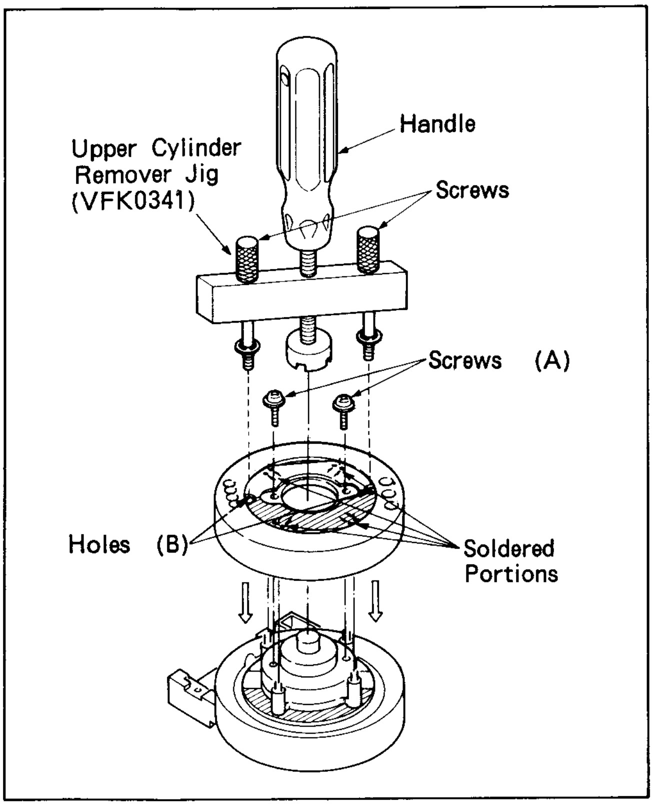
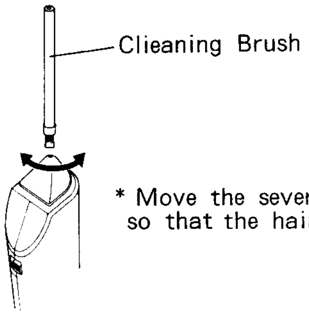


Fig. T4 UPPER CYLINDER REMOVER (VFK0341)

NOTE:
1. This Upper Cylinder Remover also can be used for other conventional VHS video head cylinder.
2. Work with extreme care when removing or replacing the upper cylinder unit. Do not touch video heads during servicing.

4. CLEANING BRUSH FOR THE DIGITAL SCANNER

If the sensor in the tip of the Digital Scanner becomes clogged with dirt, it may become impossible to read the bar codes. Clean the tip from time to time with the supplied brush as illustrated below.
Keep this brush in the storage case of the Digital Scanner.



* Move the several times over the tip so that the hair enters the hole.

Fig. T5

SECTION 1
GENERAL DESCRIPTIONS

1-1. FEATURES

1. 1-Month Calendar Timer

The clock/timer of the VTR is programmed with the calendar up to the end of 2002, so it knows exactly what day of the week it is on any given date. Programming of as many as 8 timer recordings is possible up to one month in advance.

2. Auto Operation

The extremely convenient Auto Operation functions of this VTR include Auto Start and Auto Play when a recorded cassette is inserted, Auto Eject which indicates that an inserted cassette is not suitable for recording, Power-Off Eject for ejecting a cassette even with the VTR off, and Auto Rewind at the end of a tape. If the VTR On/Off Switch is pressed during the rewind mode including Auto Rewind, the VTR will eject the cassette and turn itself off when rewinding is completed.

3. Super OTR Function (One-Touch Timer Recording)

This convenient function makes it possible to easily programme the VTR for recording of TV programmes with immediate start or with start within 24 hours by precisely setting the starting time and ending time to the desired minute. When the recording ends, the VTR will automatically turn itself off.

4. HQ (High Quality) Picture System

Video recorders carrying the HQ symbol mark feature the new VHS High Quality Picture System. This system assures complete compatibility with VTRs that use the conventional VHS system.

5. Lap Time Counter

The new Lap Time Counter is a great improvement over the approximate counter systems of conventional VTRs. It gives you an exact reading of the elapsed tape time in hours, minutes and seconds, and makes it easy to calculate the tape time left on a cassette.

6. VPS (Video Programme System) (NV-G45EG ONLY)

The Video Programme System is an extremely convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end, even if the actual broadcasting time is different from the scheduled time.

7. Digital Scanner

This Digital Scanner makes it possible to programme timer recordings by tracing the corresponding bar codes on the supplied Programming Sheet. The traced programming data can be confirmed on the built-in Bar Code Reader Display before they are transmitted to the VTR at the push of a button.

8. Time Search

It is possible to locate the desired scene directly by inputting the hour, minute and second of that scene.

9. Super Still, Super Still Advance and Double Super Fine Slow Playback

Super Still, Super Still Advance and Double Super Fine Slow Playback are possible with superb picture quality free from noise and jitter.

10. Slim Design and Front Loading System

This highly functional design allows loading the video cassette from the front, thus minimizing the space required for the placement.

11. Multi-Function Display

Whenever an operation button is pressed, the activated function is immediately indicated on this easy-to-see display. It shows you at a glance, in what operation mode the VTR is functioning.

12. Picture Sharpness Control

With this control, the contours of the playback picture can be made sharper or softer.

13. Programmable Remote Controller

In addition to letting you control all major VTR functions, this handy Remote Controller also lets you programme timer recordings from the comfort of your armchair.

14. 8 Hours Recording and Playback

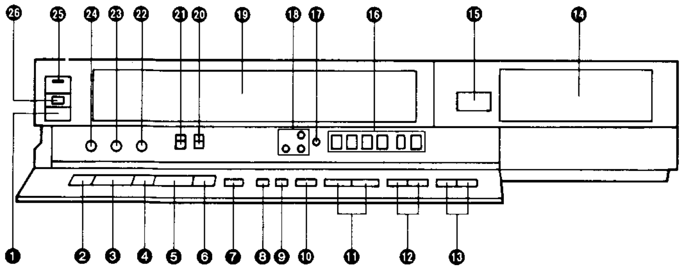
The LP mode with a maximum recording and playback time of 8 hours on a NV-E240 video cassette gives you double savings in tape costs and storage space.

15. Reception of up to 99 TV Stations

The built-in tuner in this VTR allows pre-tuning of as many as 99 TV stations. So this VTR can accommodate virtually any increase in available TV programmes in the future.

1-2. CONTROLS & COMPONENTS

FRONT



❶ Eject Button (▲)

❷ Rewind ◀◀/Review ⊟ Button

Push this button to rewind the tape. When this button is pressed during playback, the picture can be scanned in reverse at 7 times normal speed. Review will continue as long as the button is depressed.

❸ Play Button (▶)

❹ Fast Forward ▶▶/Cue ⊟ Button

Push this button to fast-forward wind the tape. When this button is pressed during playback, the picture can be scanned will playback at 7 times normal speed. Cueing will continue as long as the button is depressed.

❺ Stop Button (■)

❻ Pause/Still Button (❚❚)

❼ Record Button (●)

❽ Reset Button

❾ Memory/Search Lock Button

When this button is pressed once, the Memory Indicator "M" will light up, and when it is pressed one more time, the Search Lock Indicator "S" will appear instead. When it is pressed a third time the both indications are off.

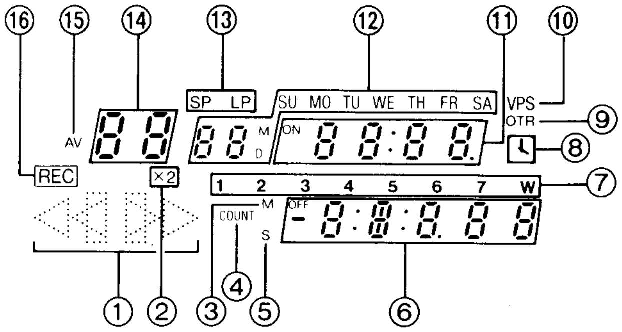
❿ Euro AV Button **(NV-G45EG ONLY)**

⓫ Channel Selection Up and Down Buttons

⓬ OTR On Buttons

⓭ OTR Off Buttons

⓮ Multi-Function Display



① Tape Running Display

② Double Speed Indicator

③ Memory Indicator

④ Tape Counter Indicator

⑤ Search Lock Indicator

⑥ Lap Time Counter Display

⑦ Timer Programme Number

⑧ Timer Recording Indicator

⑨ OTR Indicator

⑩ VPS Indicator **(NV-G45EG ONLY)**

⑪ Clock Display

⑫ Date Display

⑬ Tape Speed Indicator

⑭ Channel Display

⑮ Euro AV Indicator **(NV-G45EG ONLY)**

⑯ Recording Indicator

⓯ Infra-red Remote Control Receiver

⓰ Timer Controls

⓱ Clock Button

⓲ Tuner Set-up Controls

⓳ Cassette Compartment

⓴ Tape Speed Selector

㉑ Edit Switch

㉒ Picture Sharpness Control

The picture sharpness control enables the playback picture to be adjusted so that its outlines are made more sharper or softer.
It has no effect when recording.

㉓ Slow Tracking Control

When noise bars appear during Field Still, Field Advance of Double Fine Slow Playback, switch over to slow playback and turn the slow tracking control to the clockwise or counter clockwise to reduce the noise bars.
Then resume the required mode.
It may not be posiible to eliminate the noise bars completely.

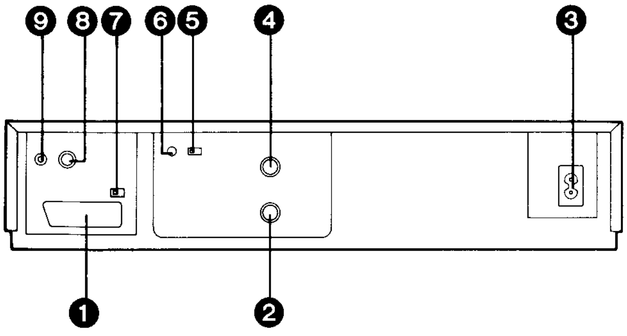
㉔ Tracking Control

Tapes recorded on another machine show noisy or a streaky playback, picture, rotate this control slowly in either direction until the picture is clear. The control should normally be kept in the "FIX" position.

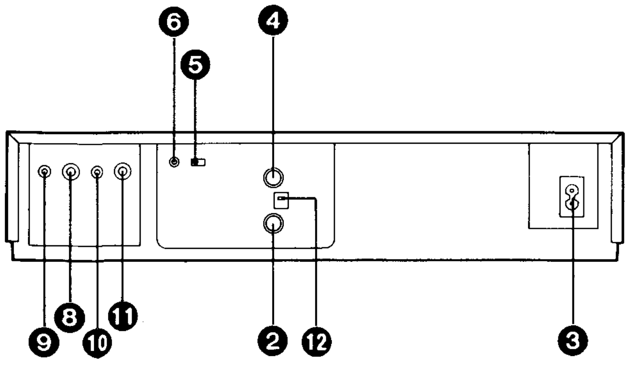
㉕ VTR On/Off Switch with Indicator

㉖ Cassette-in Indicator

REAR



(NV-G45EG)


❻
❹
❺
❾
❽
❿
⓫
❷
⓬
❸

(NV-G45B)

❶ Euro AV Socket (NV-G45EG ONLY)

❷ RF Input Socket

❸ AC Mains Lead Socket

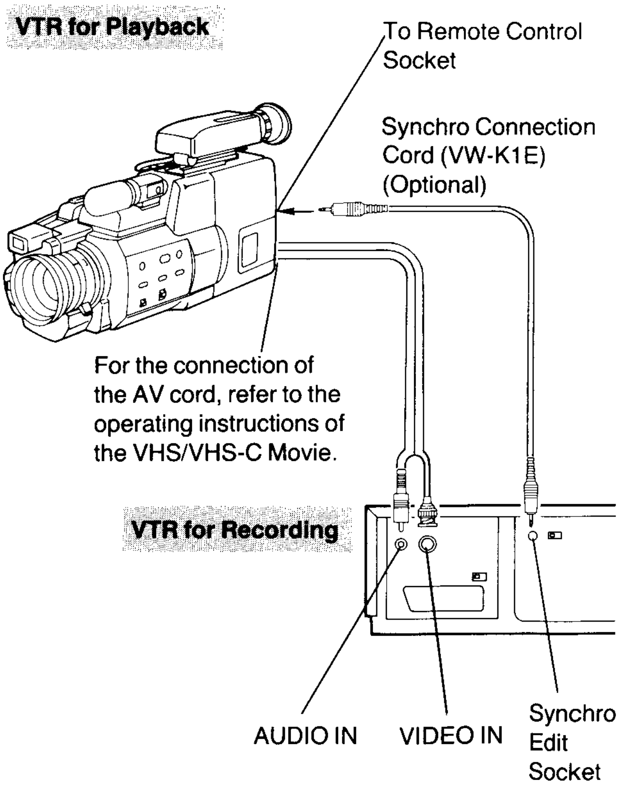
❹ RF Output Socket

❺ Test Signal Switch

When Test Signal Switch set to "ON" , two vertical lines (Test Signal) are generated from RF out. Tune the TV set to VHF channel 3 or 4 so that Test Signal can be seen, when Test Signal Switch set to "OFF", TV set is ready to receive the RF output signal from the VTR.

❻ Synchro Edit Socket

It is possible to synchronize the playback start and stop of the VHS/VHS-C Movie with the recording start and stop of this VTR.


VTR for Playback
To Remote Control Socket
Synchro Connection Cord (VW-K1E) (Optional)
For the connection of the AV cord, refer to the operating instructions of the VHS/VHS-C Movie.
VTR for Recording
AUDIO IN
VIDEO IN
Synchro Edit Socket

Preparation

- Make the necessary connections as shown in the connection diagramme.
- Set the Edit Switch on both the VHS/VHS-C Movie and on this VTR to "ON".

① Put the VTR in the recording pause mode.

② Put the VHS/VHS-C Movie in the still playback mode.
- Put the Movie at the point where you want to start editing into the still playback mode.

③ Press the Pause/Still Button on the VTR.
- The VHS/VHS-C Movie changes over to the playback mode and the editing will start automatically.

⑦ DBS Switch

With this switch, the video signal can be switched over to the Euro AV Connector. When a satellite TV decoder (descrambler) is connected, the satellite signal can be recorded by pressing the Euro AV Button (Euro AV mode) or displayed on the TV set.

⑧ Video Input Socket

⑨ Audio Input Socket

⑩ Audio Output Socket

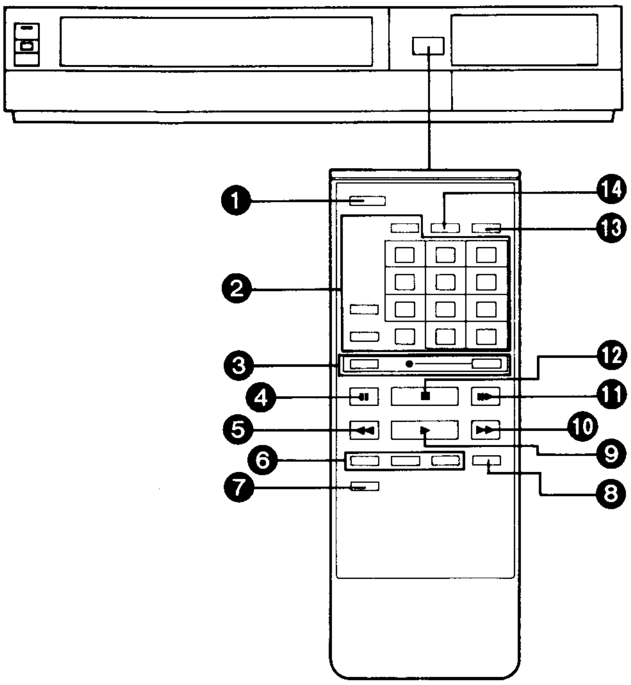
⑪ Video Output Socket

⑫ RF Signal Level Switch

Used to attenuate the reception of the VHF and/or UHF aerial signals.
If the reception is normal, set to "HIGH". If the signal is strong (stripes appear in the upper part of the picture), set to "LOW".

INFRA-RED REMOTE CONTROLLER

Unit Number: VEQ0721 (NV-G45EG)
VEQ0720 (NV-G45B)



① VTR On/Off Button

② Timer Recording & Programme Position Selector Buttons

The Timer Recording Buttons (Check/Programme, Next, Timer Record, VPS) of the Remote Controller have the same functions as the Check/Programme, Next, Timer Record, VPS Buttons on the VTR. Therefore, instead of using the (+) and (−) Buttons on the VTR, the Timer Recording & Programme Position Selector Buttons of the Remote Controller can be used to programme timer recordings.

How to Select the Programme Position (Channel)

select channel	press button
1−9	1 — 9 respective channel
10	10/0
20	-/-- → 2 → 10/0
11−99 for example 99	-/-- → 9 → 9

If more than 5 seconds pass between the first, second and third push, the channel will not be changed normally.

How to Set the Date and the Starting & Ending Times for Timer Recordings

The date and time can be set by directly pressing the number buttons (1~9). When two buttons have to be pressed (for example, when setting the date to a day of the month between 10 and 31, the hour between 10 and 23, the minute between 10 and 59), the second button must be pressed within 2 seconds after pressing the first button.

③ Record Buttons (●)

④ Pause/Still Button (❚❚)

⑤ Rewind ◀◀/Review ◀◀ Button

⑥ Slow Buttons

Press the Slow Button for slow−motion playback at 1/10 of normal speed. The slow playback speed can be varied between 1/30 and 1/5 of normal speed by using the "+" and "−" Buttons.

NOTE:
If the VTR is left in the slow playback mode for more than 10 minutes, the VTR will automatically switch over to the stop mode, to protect the tape and the video heads
Adjust the Slow Tracking Control if necessary.

⑦ Reverse Play Button

⑧ Double Speed Playback Button (×2)

⑨ Fast Forward ▶▶/Cue ▶▶ Button

⑩ Play Button (▶)

⑪ Still Advance Button (❚❚▶)

⓬ **Stop Button (■)**

⓭ **Time Search Button**

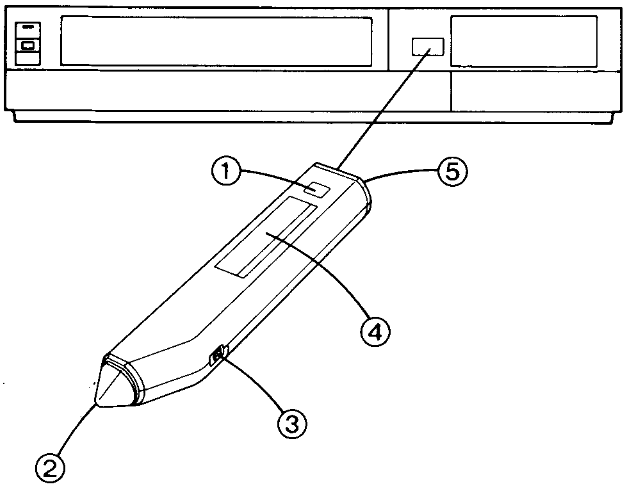
⓮ **+/– Button**

NOTE:

* The infra–red beam should be transmitted directly at the infra–red remote control receiver on the front of the VTR.
* Direct sunlight may interfere with the beam.
* The lightsensing angle of the infra–red remote control receiver window in the VTR is about 60 degrees.
* The unit should be used within a range of about 7 meters from the front of the VTR.

DIGITAL SCANNER

Unit Number: VEQ0691 (NV-G45EG)
VEQ0692 (NV-G45B)

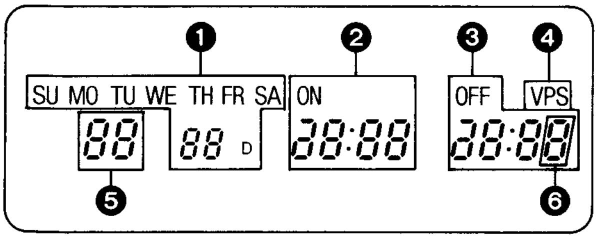


① **Transmit Button**

② **Bar Code Reading Section**

③ **Digital Scanner On/Off Switch**

④ **Bar Code Reader Display**



❶ Date Display

❷ Start Time Display

❸ End Time Display

❹ VPS Indicator

❺ Channel Display

❻ Check Indicator

⑤ **Transmitting Section**

How to Operate the Digital Scanner

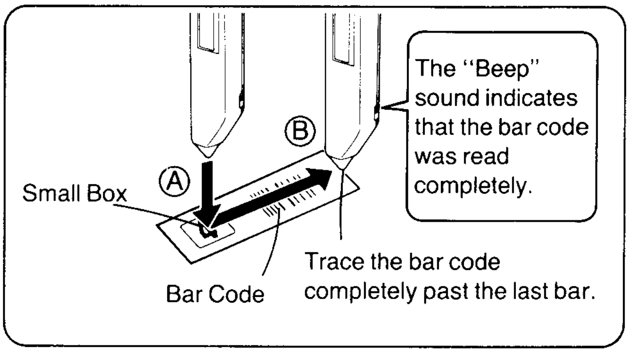
Set the Digital Scanner On/Off Switch to "ON".

- If no operation is performed for more than 25 seconds, the scanner will automatically switch over to the power-saving standby condition and the lamp will go off. (In this case, if bar codes have already been read but not yet transmitted to the VTR, the data will be cancelled.)
- When the Digital Scanner On/Off Switch is set to "ON" but the lamp is not lit, set the switch to "OFF" and then to "ON" again.

Tracing the Bar Codes

Ⓐ Place the Digital Scanner vertically on the Small Box.

Ⓑ Trace the bar code quickly in the direction of the arrow.

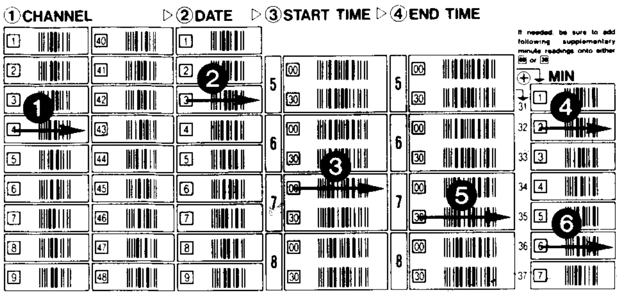


The "Beep" sound indicates that the bar code was read completely.

- Treat the Programming Sheet with care. If the sheet gets dirty or scratched, the bar code reading may become impossible.
- Protect the Digital Scanner from strong shocks and vibration. Keep it away from water and places with high temperature and humidity.
- If the bar code is traced slowly, it cannot be read correctly.
- When there is no "Beep" sound, the reading of the bar code is incomplete. Trace the bar code again.
- When using the Programming Sheet, put it on flat surface. Reading the bar codes while holding it in your hand or bending it, may result in incorrect operation.
- Do not deviate from the bar code, nor stop tracing halfway.
- Do not slant the scanner to trace the bar code.

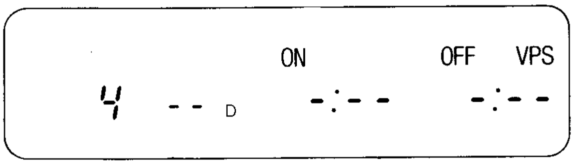
TIMER RECORDING BY USING THE DIGITAL SCANNER

Tracing the Bar Codes

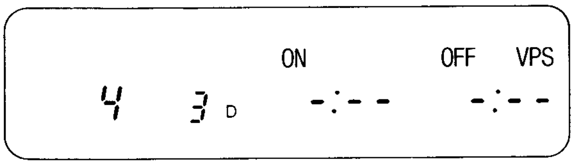


Example: When programming a timer recording for a programme that will be broadcast on channel position 4 on the 3rd of the month, from 7:02 to 7:35, trace the bar codes in the order of the numbered arrows shown below.

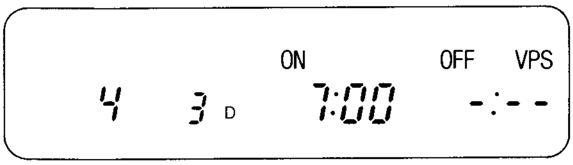
❶ Trace the bar code for "CHANNEL".



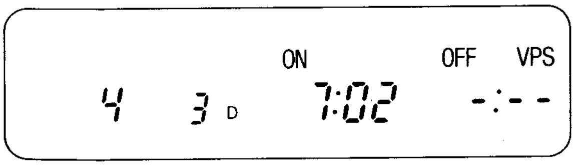
❷ Trace the bar code for "DATE".



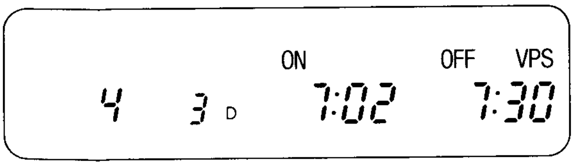
❸ Trace the bar code for "START TIME".



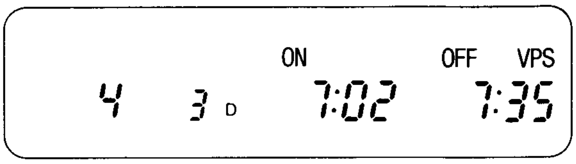
❹ Trace the bar code for "+MIN".



❺ Trace the bar code for "END TIME".



❻ Trace the bar code for "+MIN".



- When setting to a minute between 1 and 29, trace the appropriate "+MIN" bar code after tracing the 00 bar code.
- When setting to a minute between 31 and 59, trace the appropriate "+MIN" bar code after tracing the 30 bar code.

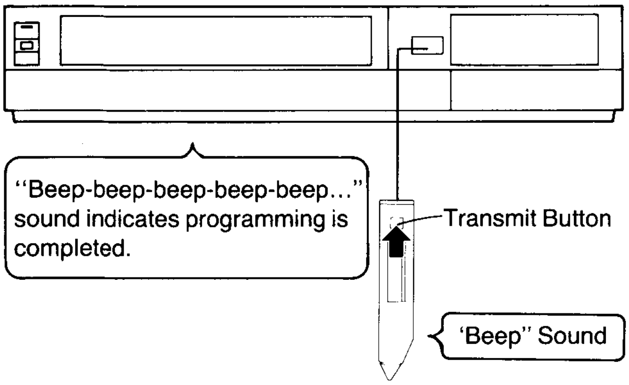
Setting the Time in 30-minute Steps

- Trace the appropriate bar code in the 30-minute-step column only.

- The "Bee Bee Bee Bee Beeeeep" sound signals that the scanner is now ready for data transmission.
- When a timer bar code with 00 or 30 minutes is traced for the end time, the "Bee Bee Bee Bee Beeeeep" sound which indicates reading completion is heard. When subsequently tracing a "+MIN" bar code after tracing 00 or 30 to choose another minute setting, the reading completion sound will be heard again.
- When no sound is heard, read the bar codes once again.
- If more than one bar code is read in the same group, only the last code will be effective.
- The bar codes for the time from "0:00" (midnight) to "4:59" in the morning are on the back of the Programming Sheet.
- If the "CANCEL" bar code is read, all bar codes that have been read so far will be cancelled.

Transmit the Programming Data

Keep pressing the Transmit Button and confirm that the programmed data on the Multi-Function Display of the VTR are as desired.
After releasing the button, the data will continue to be displayed for about 12 seconds.


"Beep-beep-beep-beep-beep..." sound indicates programming is completed.
Transmit Button
'Beep" Sound

- If the transmission was not received correctly, the "Beep-Beep, Beep-Beep" sound from the VTR will warn you. In this case, perform transmission again.
- The transmission is possible when the VTR is turned on but is not in any of the recording or playback operation modes. It is also possible when the VTR is in the timer recording standby mode (⏲ indication is lit).
- The programming will be done on the next lower unoccupied timer programme number (7~1).
- If all programme numbers are occupied, the "Beep-Beep, Beep-Beep" sound from the VTR will warn you that the programming cannot be made.
- When the Transmit Button is pressed, the VTR will automatically be put into the timer recording standby condition and the VTR will be turned off.
- To operate the VTR before the timer recording will be performed, press the Timer Rec. Button to suspend the timer recording standby condition. After using the VTR, be sure to press the Timer Rec. Button again, otherwise the timer recording will not be made.

For Programming More Than One Timer Recording in Succession

Repeat the following operation steps ❶-❸.

❶ Trace the "CANCEL" bar code on the Programming Sheet.

CANCEL

❷ Trace the bar codes for "CHANNEL", "DATE", "START TIME" and "END TIME".

❸ Confirm that the present time is displayed on the Multi-Function Display of the VTR, and transmit the data.
- If the next timer programming data are transmitted while the previous timer programming data are still being displayed, the displayed timer recording data will be cancelled.

VPS ON/OFF (NV-G45EG ONLY)

If the VTR is equipped with the VPS function, the VPS function is automatically activated by setting the Digital Scanner On/Off Switch to "ON", or by tracing the "CANCEL" bar code. To cancel VPS function, trace the "OFF" bar code. To activate the VPS function again, trace the "ON" bar code.

VPS

ON ☐

OFF ☐

To Confirm the Programme of a Timer Recording

To perform this operation, the VTR must be turned on or it must be in the timer recording standby mode (⏲ indication is lit).

❶ Trace the "CHECK" bar code.

CHECK

❷ Perform transmission.
- After releasing the Transmit Button, the programmed data will be displayed for about 8 seconds (for about 25 seconds, if the ⏲ indication is not lit) on the Multi-Function Display.
- At every push of the Transmit Button, the timer programme number advances to the next higher number.

To Cancel a Programmed Timer Recording

To perform this operation, the VTR must be turned on but not be in any of the recording or playback operation modes, or it must be in the timer recording standby mode (⏲ indication is lit). To cancel a programmed timer recording, its data must be displayed on the Multi-Function Display. If they are no longer displayed, first, trace the "CHECK" bar code and perform transmission (several times, if necessary, until the programme you want to cancel is displayed). Then, within 8 seconds (within 25 seconds, if the ⏲ indication is not lit):

① Trace the "CANCEL" bar code.

② Perform transmission.
- To programme a new timer recording, perform the programming from the beginning.

SECTION 2

ADJUSTMENT PROCEDURES

2-1. MECHANICAL ADJUSTMENT PROCEDURES

This Mechanical Chassis of these models NV−G45EG/B is the same as G Mechanical Chassis.
Therefore please refer to the Service Manual G Mechanical Chassis (Order No. VRD8701105).

2-2. DISASSEMBLY METHOD

2-2-1. DISASSEMBLY FLOW CHART

This flowchart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.
When reassembling, perform the steps in the reverse order.

NOTE:
When removing the Front Panel, be careful to avoid any damages for the locking portions of the panel.

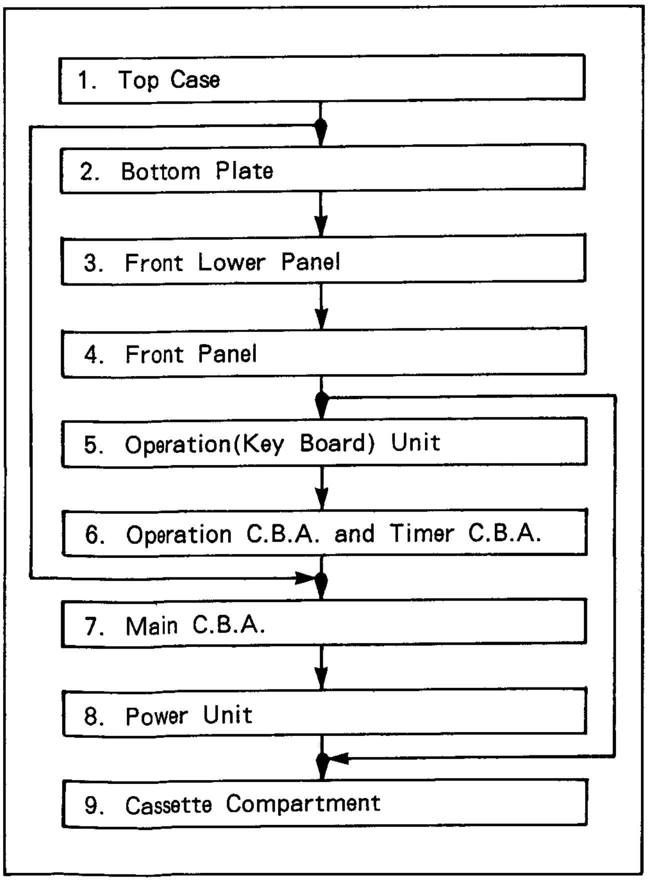

1. Top Case
2. Bottom Plate
3. Front Lower Panel
4. Front Panel
5. Operation(Key Board) Unit
6. Operation C.B.A. and Timer C.B.A.
7. Main C.B.A.
8. Power Unit
9. Cassette Compartment

Fig. D1

2-2-2. DETAIL OF DISASSEMBLY METHOD

1.REMOVAL OF THE TOP CASE
Remove the screws (A) (NV−G45EG: 4 screws, NV−G45B: 2 screws), then carefully lift the rear of the Top Case to remove.

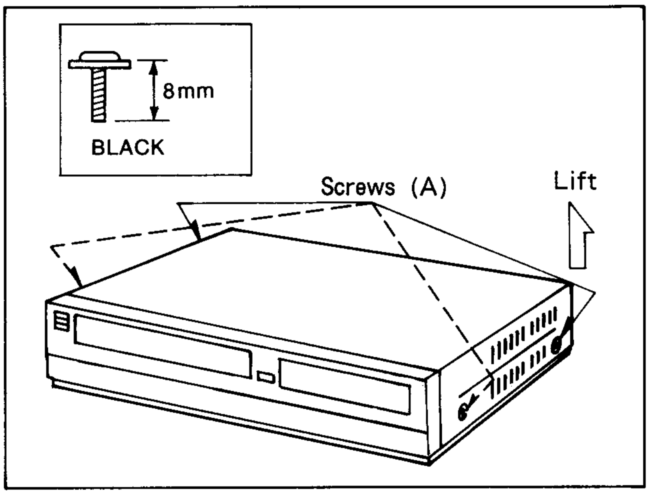

8mm
BLACK
Screws (A)
Lift

Fig. D2

2.REMOVAL OF THE BOTTOM PLATE
Place the deck upside down so that the bottomside faces upward.
Then remove the screws (B) (NV−G45EG: 6 screws, NV−G45B: 4 screws).

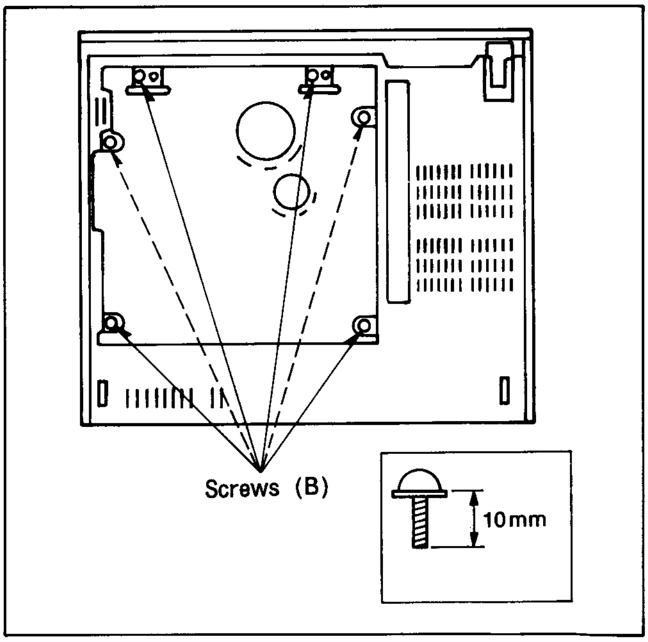

Screws (B)
10mm

Fig. D3

NOTE:
Place the cushion under the deck to avoid any damages.

3. REMOVAL OF THE FRONT LOWER PANEL

Place the deck upside down so that the bottomside faces upward.
Then remove the screw (C) and unlock the 3 locking portions (D).

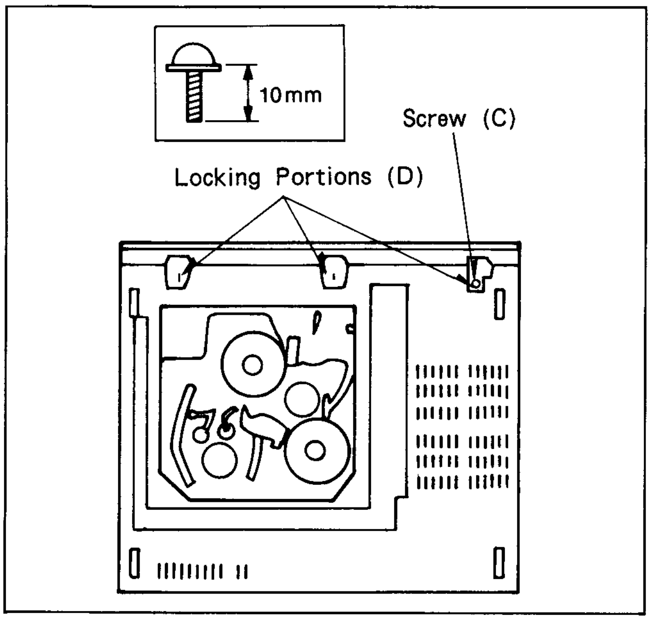

10mm
Screw (C)
Locking Portions (D)

Fig. D4

NOTE:
Place the cushion under the deck to avoid any damages.

4. REMOVAL OF THE FRONT PANEL

Open the Operation(Key Board) Unit and remove the screw (E) and unlock the 5 locking portions (F). Then hold the top portion of the panel and turn it toward the front side of the deck to remove.

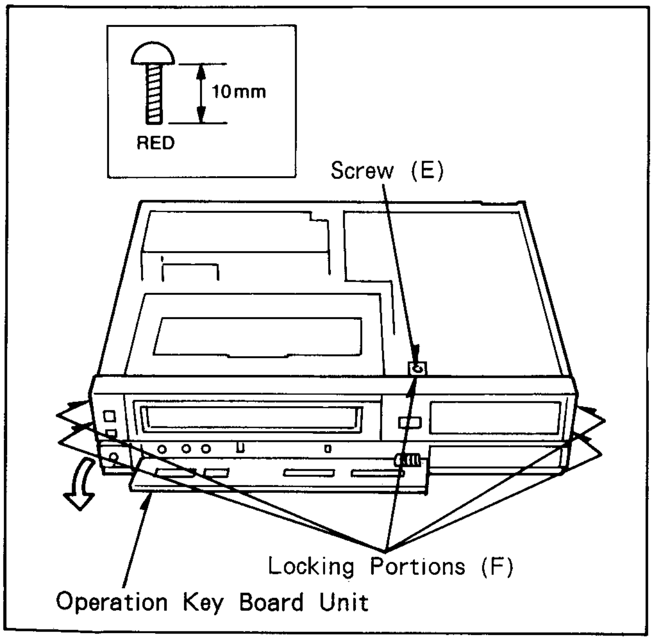

10mm
RED
Screw (E)
Locking Portions (F)
Operation Key Board Unit

Fig. D5

NOTE:
Place the cushion under the deck to avoid any damages.

5.REMOVAL OF THE OPERATION (KEY BOARD) UNIT

Remove the 2 screws (G) and unlock the 2 locking portions (H).
Disconnect the connector P7504 (I) and remove the flexible wire. Then carefully remove the Operation(Key Board) Unit.

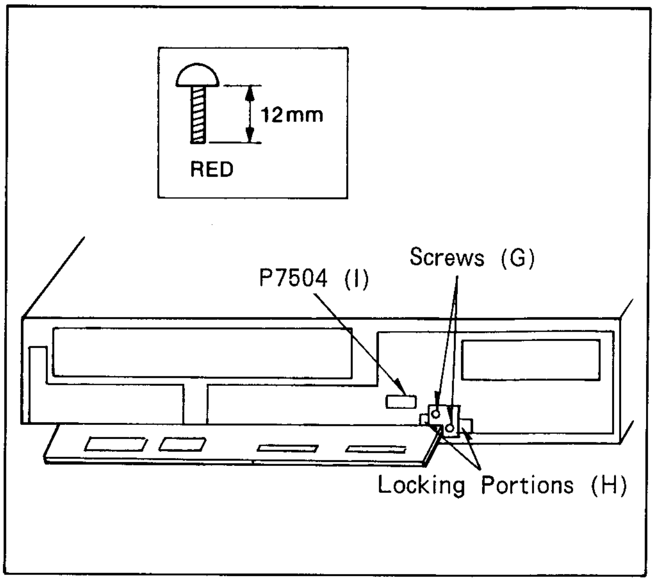

12mm
RED
Screws (G)
P7504 (I)
Locking Portions (H)

Fig. D6

6.REMOVAL OF THE OPERATION C.B.A. AND TIMER C.B.A.

Remove the 7 screws (J) and unlock the 3 locking portions (K).

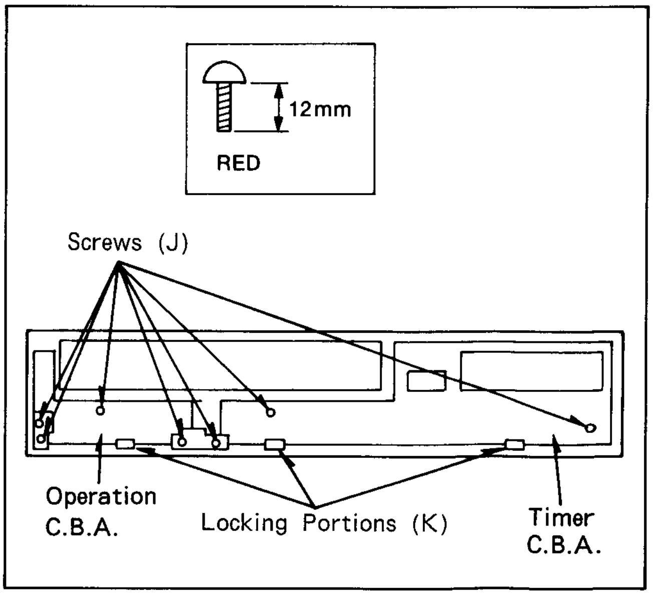

12mm
RED
Screws (J)
Operation C.B.A.
Locking Portions (K)
Timer C.B.A.

Fig. D7

7. REMOVAL OF THE MAIN C.B.A.

Remove the 5 screws (L) and take out the Main C.B.A. Putting it up right position on the flame can be available as shown in Fig. D9.

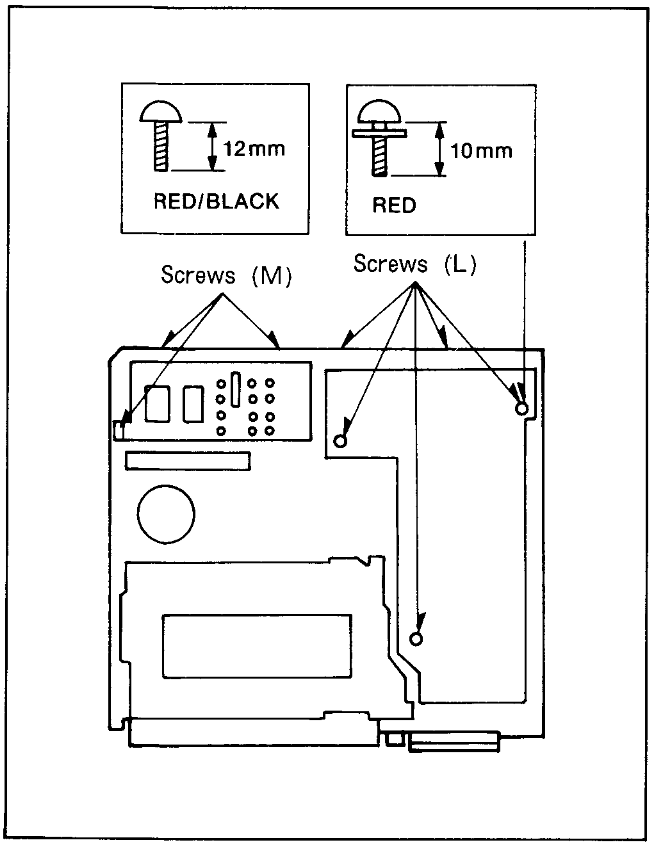

12mm
RED/BLACK
10mm
RED
Screws (M)
Screws (L)

Fig. D8

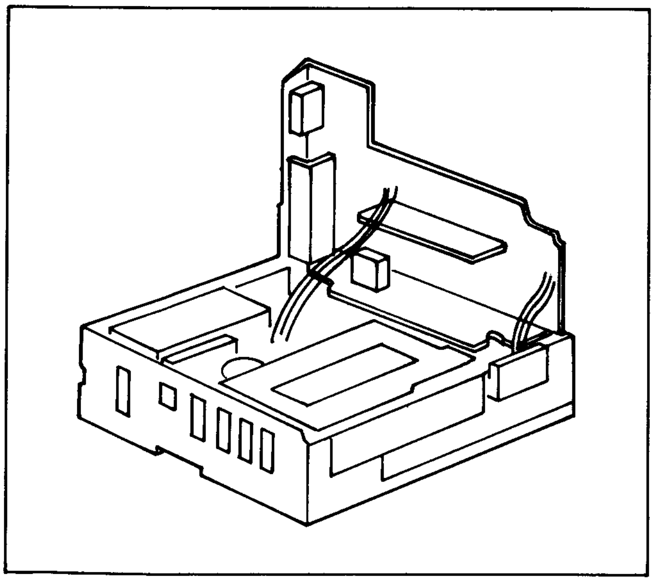


Fig. D9

8. REMOVAL OF THE POWER UNIT

Remove the 3 screws (M) and take it out from the Main C.B.A. as shown in Fig. D8.

Remove the shield case then checking can be performed.

9. REMOVAL OF THE CASSETTE COMPARTMENT

Remove the 3 screws (N).
Slide the cassette holder unitil appearing 2 screws (O) by turning (clockwise) the Capstan Rotor Unit (located in the bottom side as shown in Fig. D11) and remove the 2 screws (0).
Remove the flexible cable from connector P1503 mounted on Take-up Photo Tr. C.B.A. , then carefully pull out the Cassette Compartment.

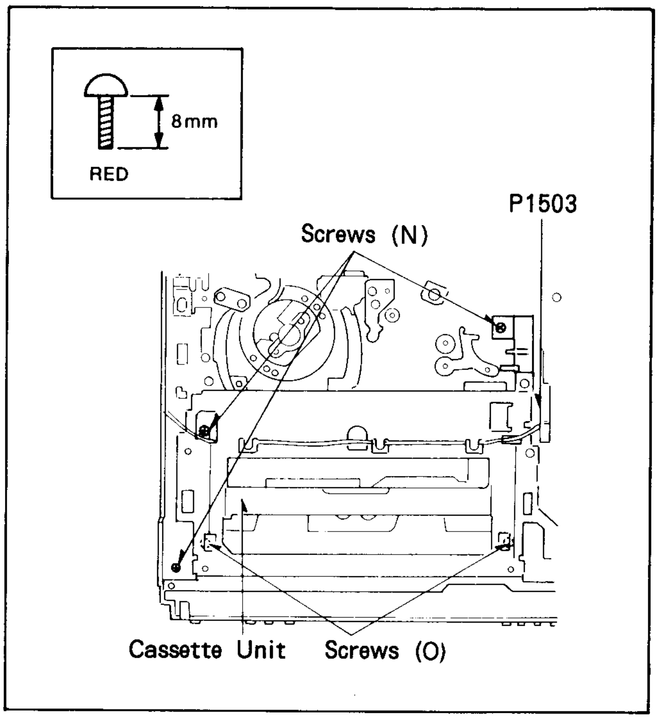

8mm
RED
P1503
Screws (N)
Cassette Unit
Screws (O)

Fig. D10

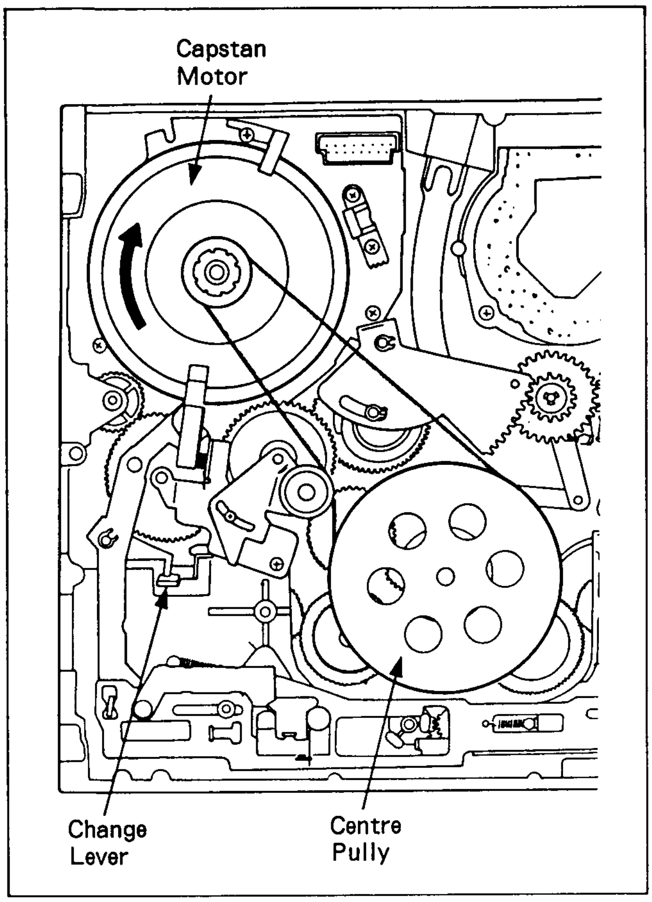


Fig. D11

NOTE:
When reinstalling the Cassette Compartment, mechanical adjustment (alignment) must be performed for correct working refer to Service Manual (G Mechanical Chassis) (Order No. VRD8701105, item 3–10. mechanical adjustment (alignment)).

2-3. ELECTRICAL ADJUSTMENT PROCEDURES

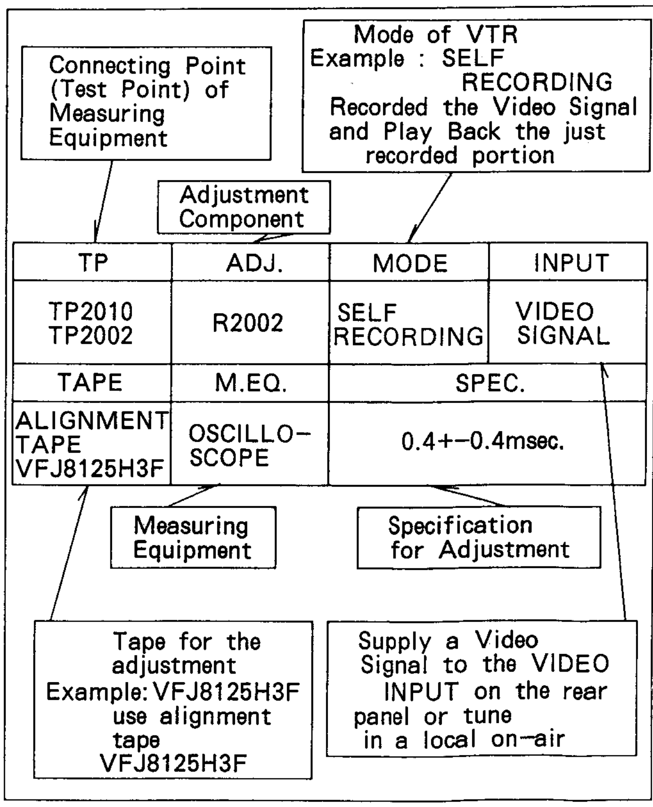
This section provides complete electrical adjustment procedures which may be required for electronic circuits of VHS Video Cassette Recorder NV–G45EG/B.

2-3-1. TEST EQUIPMENTS

To perform the electrical adjustments completely, following equipments are required.

1. VTVM (Vacuum Tube Volt Meter) or DVM (Digital Volt Meter)
   Voltage Range: 0.001～50V
2. Dual–Trace Oscilloscope
   Voltage Range: 0.005～50V/div.
   Frequency Range: DC～30MHz
   Probes: 10:1 or 1:1
3. Frequency Counter
   Frequency Range: 0～10MHz
4. Signal Generator (Sinewave)
   Frequency Range: 0～500KHz
5. Video Sweep Generator
   Frequency Range: 0～10MHz
6. Colour Monitor TV
7. Plastic Tip Driver
8. VHS Alignment Tape (VFJ8125H3F)

2-3-2. HOW TO READ THE ADJUSTMENT PROCEDURES



Connecting Point (Test Point) of Measuring Equipment

Mode of VTR
Example : SELF RECORDING
Recorded the Video Signal and Play Back the just recorded portion

Adjustment Component

TP	ADJ.	MODE	INPUT
TP2010 TP2002	R2002	SELF RECORDING	VIDEO SIGNAL
TAPE	M.EQ.	SPEC.	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	0.4+–0.4msec.	

Measuring Equipment

Specification for Adjustment

Tape for the adjustment
Example: VFJ8125H3F use alignment tape VFJ8125H3F

Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on–air

Fig.E1

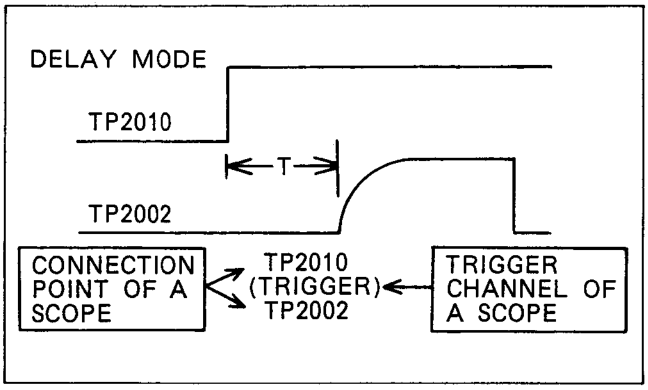

DELAY MODE
TP2010
T
TP2002
CONNECTION POINT OF A SCOPE
TP2010 (TRIGGER)
TP2002
TRIGGER CHANNEL OF A SCOPE

Fig.E2

SERVO SECTION

2-3-3. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP3002	VR2001	PLAY	
TAPE	**M.EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	6.5+−0.5H	

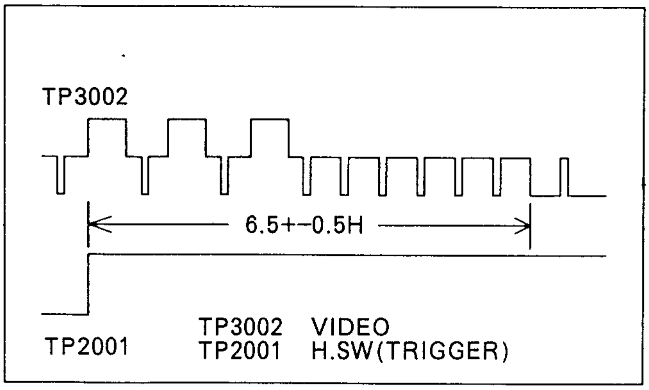

TP3002
6.5+−0.5H
TP2001
TP3002 VIDEO
TP2001 H.SW(TRIGGER)

Fig.E3

2-3-4. TRACKING FIX ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP2002	VR2002	SELF RECORDING	VIDEO SIGNAL
TAPE	**M.EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	T=1.6+−0.4msec.	

1. TRACKING VR is in centre fix postiion.
2. Record the video signal.
3. Playback the just recorded poriton.
4. Adjust the VR2002 so that the period of "T" becomes 1.6+−0.4msec. as shown in below.

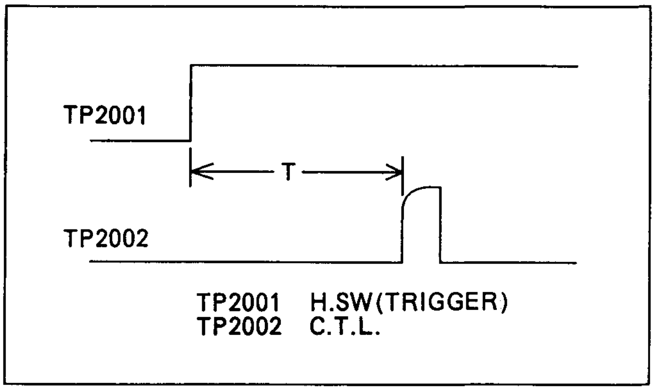

TP2001
T
TP2002
TP2001 H.SW(TRIGGER)
TP2002 C.T.L.

Fig.E4

2-3-5. SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2026 TP2002	VR2011	SLOW	VIDEO SIGNAL
TAPE	**M.EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	T=17.5+−2msec.	

1. SLOW TRACKING VR is centre fix position.
2. Playback the just recorded portion in SLOW mode.
3. Adjust the VR2011 for 17.5+−2msec. as shown in Fig. E5.

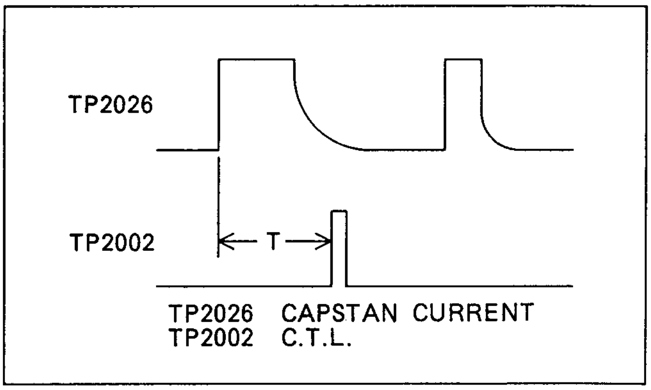

TP2026
TP2002
T
TP2026 CAPSTAN CURRENT
TP2002 C.T.L.

Fig.E5

2-3-6. SLOW FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2015	VR2013	STILL	VIDEO SIGNAL
TAPE	**M.EQ.**	**SPEC.**	
BLANK TAPE	FREQUENCY COUNTER	453+−15Hz	

1. Record the video signal and playback the tape just recorded. Then place the unit in STILL mode.
2. Connect a jumper wire between TP2025 and GND.
3. Connect a jumper wire between TP2026 and GND.
4. Connect the frequency counter to TP2015.
5. Adjust the VR2013 so that the frequency is 453+-15Hz.

2-3-7. ARTIFICIAL V-SYNC ADJUSTMENT

TP	ADJ.	MODE	INPUT
	VR2010	SELF RECORDING	VIDEO SIGNAL
TAPE	**M.EQ.**	**SPEC.**	
BLANK TAPE	TV MONITOR		

1. Playback the just recorded portion and place the deck in STILL mode.
2. Adjust the VR 2010 so that tha V-dancing does not appear on the TV monitor screen.

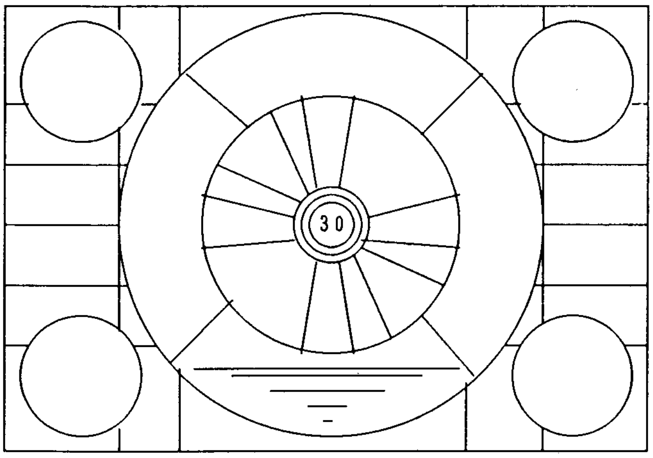


Fig.E6

LUMINANCE, CHROMINANCE & HEAD AMP SECTION

2-3-8. LUMINANCE RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP503 (HOT) TP504 (GND)	VR501	RECORDING	VIDEO SIGNAL
TAPE	**M.EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	130+-5mVp-p	

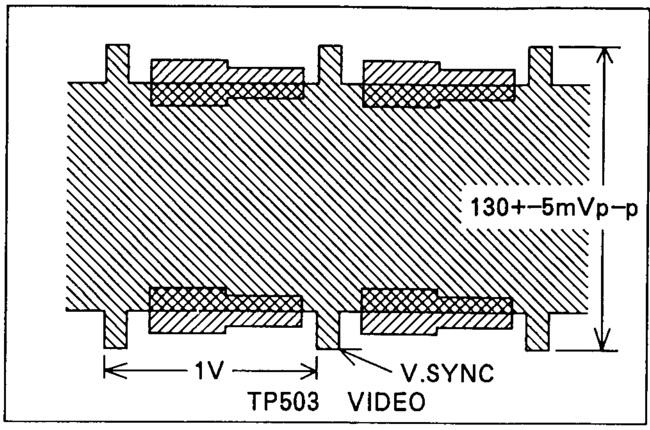


Fig.E7

2-3-9. CHROMINANCE RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP503(HOT) TP504(GND)	VR502	RECORDING	VIDEO SIGNAL
TAPE	**M.EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	32+-3mVp-p	

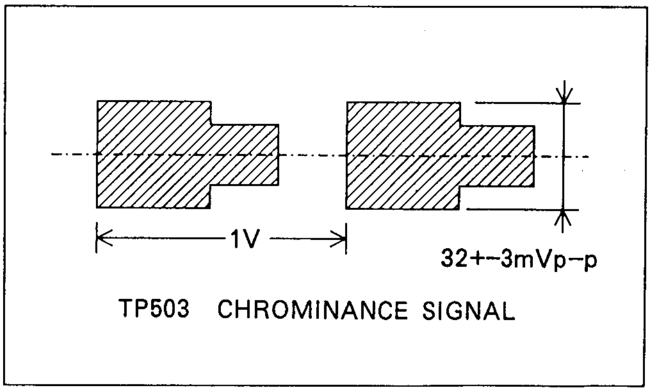


Fig.E8

2-3-10. PLAYBACK CHROMA CYAN LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002 (VIDEO OUT)	VR803	SELF RECORDING	VIDEO SIGNAL
TAPE	**M.EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	0.55+-0.05Vp-p	

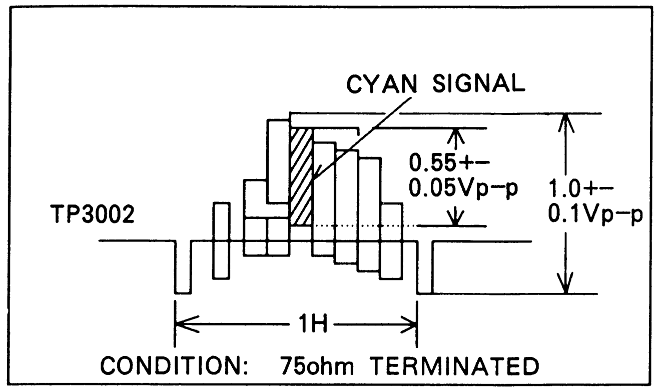

CYAN SIGNAL
0.55+-0.05Vp-p
1.0+-0.1Vp-p
TP3002
1H
CONDITION: 75ohm TERMINATED

Fig.E9

2-3-11. HEAD AMP FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002 (VIDEO OUT)	VR3012	SELF RECORDING	VIDEO SWEEP
TAPE	M.EQ.	SPEC.	
BLANK TAPE	VIDEO SWEEP/ OSCILLOSCOPE		

1. Set the sweep generator output as shown in below.

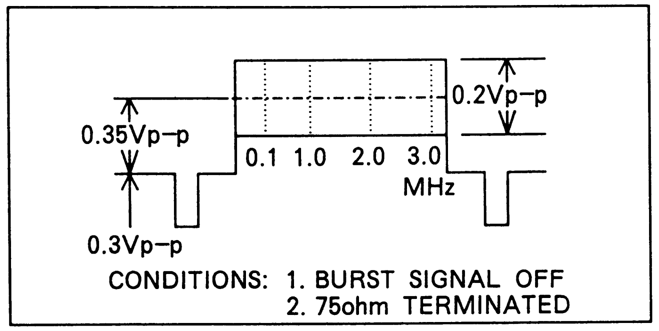

0.2Vp-p
0.35Vp-p
0.1 1.0 2.0 3.0
MHz
0.3Vp-p
CONDITIONS: 1. BURST SIGNAL OFF
2. 75ohm TERMINATED

Fig.E10

2. PICTURE VR is centre fix position.
3. Adjust the VR3012 so that the waveform becomes as shown in below.

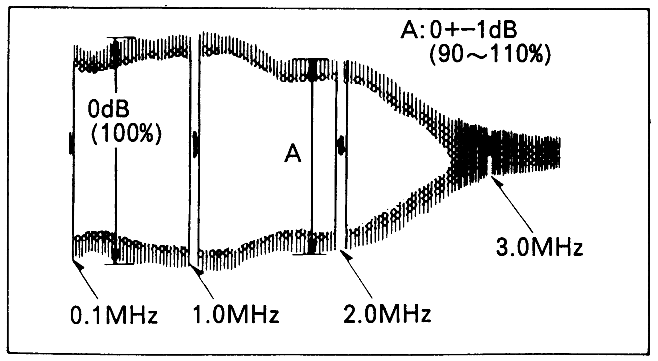

A:0+-1dB
(90~110%)
0dB
(100%)
A
3.0MHz
0.1MHz
1.0MHz
2.0MHz

Fig.E11

2-3-12. Y-NR BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC301-9	VR302	SELF RECORDING	VIDEO SIGNAL (COLOUR BAR)
TAPE	M.EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE	WAVEFORM IS MINIMIZED	

1. Connect the oscilloscope to Pin9 of IC301 on the Luminance & Chrominance Pack C.B.A.
2. Adjust the VR302 so that the waveform is minimized as shown in below.

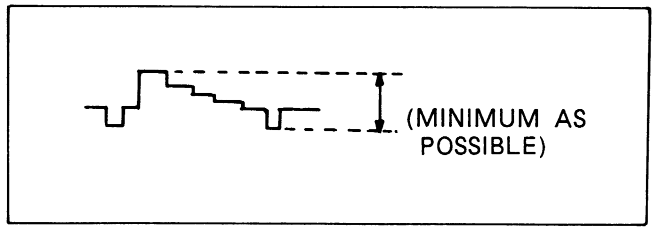

(MINIMUM AS POSSIBLE)

Fig.E12

2-3-13. HQ AMP GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002	VR301	STOP	VIDEO SIGNAL
TAPE	M.EQ.	SPEC.	
	OSCILLOSCOPE	1.0+-0.1VP-P	

1. Set the Tape Speed Selector to "LP" position.
2. Connect the oscilloscope to TP3002.
3. Adjust the VR301 so that the video level is 1.0+-0.1Vp-p as shown below.

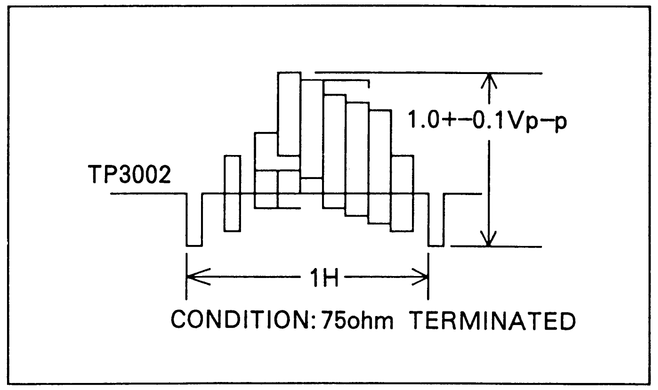

1.0+-0.1Vp-p
TP3002
1H
CONDITION:75ohm TERMINATED

Fig.E13

2-3-14. CHROMA RECURSIVE ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC302-7	VR801 VR802	SELF RECORDING	VIDEO SIGNAL
TAPE	M.EQ.	SPEC.	
	OSCILLOSCOPE	WAVEFORM IS MINIMIZED	

1. Play back the just recorded portion.
2. Connect the oscilloscope to pin of IC302 on the Luminance & Chrominance Pack C.B.A.
3. Adjust the VR801 and VR802 mutually so that the chrominance waveform is minimized as shown below.

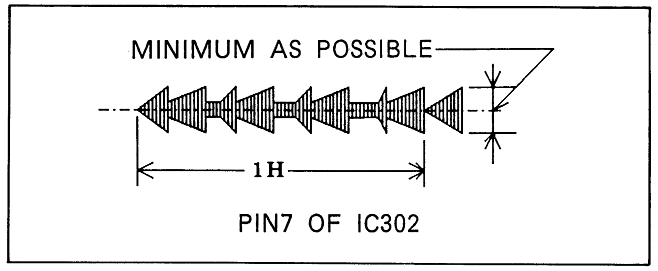

MINIMUM AS POSSIBLE
1H
PIN7 OF IC302

Fig.E14

2-3-15. SECAM KILLER ADJUSTMENT (NV-G45EG ONLY)

TP	ADJ.	MODE	INPUT
IC851-11	T851	RECORDING	SECAM VIDEO SIGNAL
TAPE	M.EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE	Portion A is peak to hegative direction.	

1. Adjust T851 so that the portion "A" becomes maximum waveform.

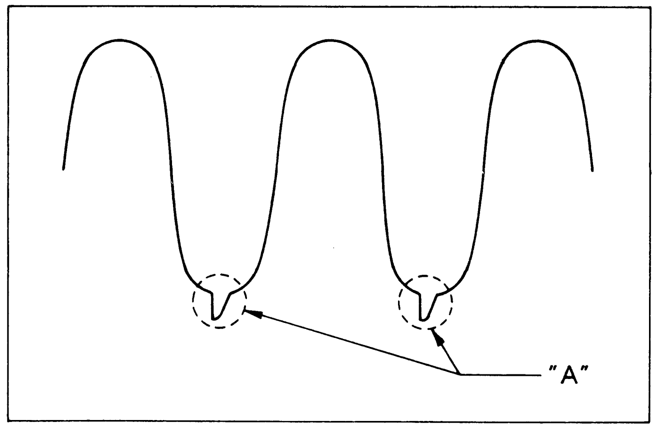


Fig.E15

AUDIO SECTION

2-3-16. AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (+) TP4001 (-)	VR4002	RECORDING	
TAPE	M.EQ.	SPEC.	
BLANK TAPE	V.T.V.M.	2.2+-0.1mVrms	

2-3-17. AUDIO PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4001 (AUDIO OUT)	VR4001	SELF RECORDING	1KHz,0dB AUDIO SIGNAL
TAPE	M.EQ.	SPEC.	
BLANK TAPE	SIGNAL GENERATOR/ V.T.V.M.	E-E Level=-7+-2dB P.B. Level= E-E Level+-0.5dB	

NOTE:
Before this adjustment, "Tape Interchangeabiltity Adjustment" and "Audio Bias Current Adjustment" must be completed.

2-3-18. MUTING FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC3002-9	VR3020	STOP	
TAPE	M.EQ.	SPEC.	
	FREQUENCY COUNTER	15.625+-0.05KHz	

1. To make this adjustment, please prepare the following circuit as hown below.

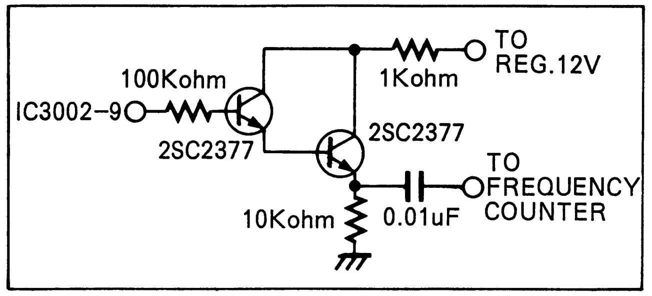

TO REG.12V
100Kohm
1Kohm
IC3002-9
2SC2377
2SC2377
TO FREQUENCY COUNTER
10Kohm
0.01uF

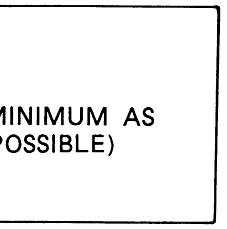
Fig.E16

2. Make a short circuit between VIDEO IN and GND.
3. Adjust VR3020 so that the frequency becomes 15.625+-0.05KHz.

TMENT

E	INPUT
ING	VIDEO SIGNAL (COLOUR BAR)
SPEC.	
VEFORM IS IMIZED	

Pin9 of IC301 on
Pack C.B.A.
the waveform is

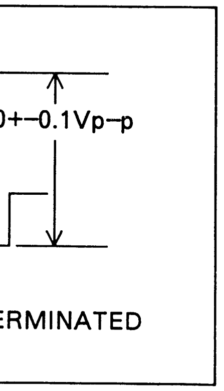


MINIMUM AS
POSSIBLE)

MENT

E	INPUT
P	VIDEO SIGNAL
SPEC.	
0+-0.1VP-P	

"LP" position.
002.
the video level is

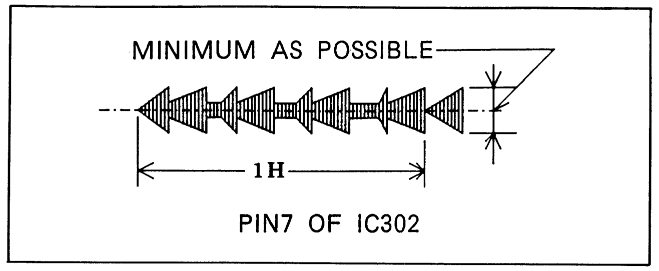


0+-0.1Vp-p
ERMINATED

2-3-14. CHROMA RECURSIVE ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC302-7	VR801 VR802	SELF RECORDING	VIDEO SIGNAL
TAPE	M.EQ.	SPEC.	
	OSCILLOSCOPE	WAVEFORM IS MINIMIZED	

1. Play back the just recorded portion.
2. Connect the oscilloscope to pin of IC302 on the Luminance & Chrominance Pack C.B.A.
3. Adjust the VR801 and VR802 mutually so that the chrominance waveform is minimized as shown below.



MINIMUM AS POSSIBLE
1H
PIN7 OF IC302

Fig.E14

2-3-15. SECAM KILLER ADJUSTMENT (NV-G45EG ONLY)

TP	ADJ.	MODE	INPUT
IC851-11	T851	RECORDING	SECAM VIDEO SIGNAL
TAPE	M.EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE	Portion A is peak to hegative direction.	

1. Adjust T851 so that the portion "A" becomes maximum waveform.

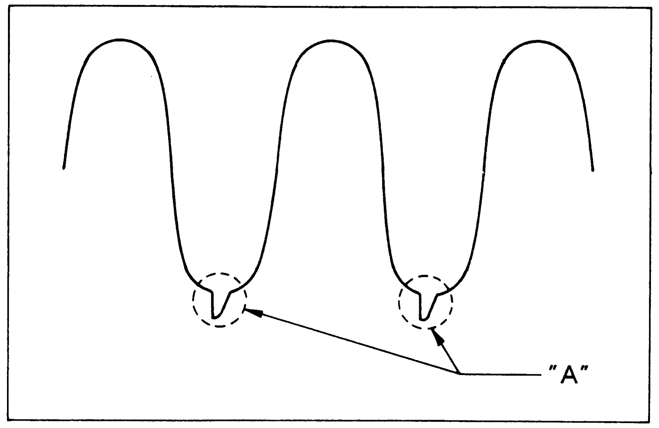


Fig.E15

AUDIO SECTION

2-3-16. AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (+) TP4001 (-)	VR4002	RECORDING	
TAPE	M.EQ.	SPEC.	
BLANK TAPE	V.T.V.M.	2.2+-0.1mVrms	

2-3-17. AUDIO PLAYBACK LEVEL ADJUSTMENT

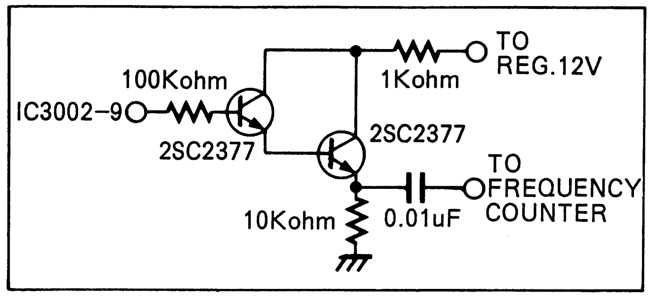
TP	ADJ.	MODE	INPUT
TP4001 (AUDIO OUT)	VR4001	SELF RECORDING	1KHz,0dB AUDIO SIGNAL
TAPE	M.EQ.	SPEC.	
BLANK TAPE	SIGNAL GENERATOR/ V.T.V.M.	E-E Level=-7+-2dB P.B. Level= E-E Level+-0.5dB	

NOTE:
Before this adjustment, "Tape Interchangeabiltity Adjustment" and "Audio Bias Current Adjustment" must be completed.

2-3-18. MUTING FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC3002-9	VR3020	STOP	
TAPE	M.EQ.	SPEC.	
	FREQUENCY COUNTER	15.625+-0.05KHz	

1. To make this adjustment, please prepare the following circuit as hown below.



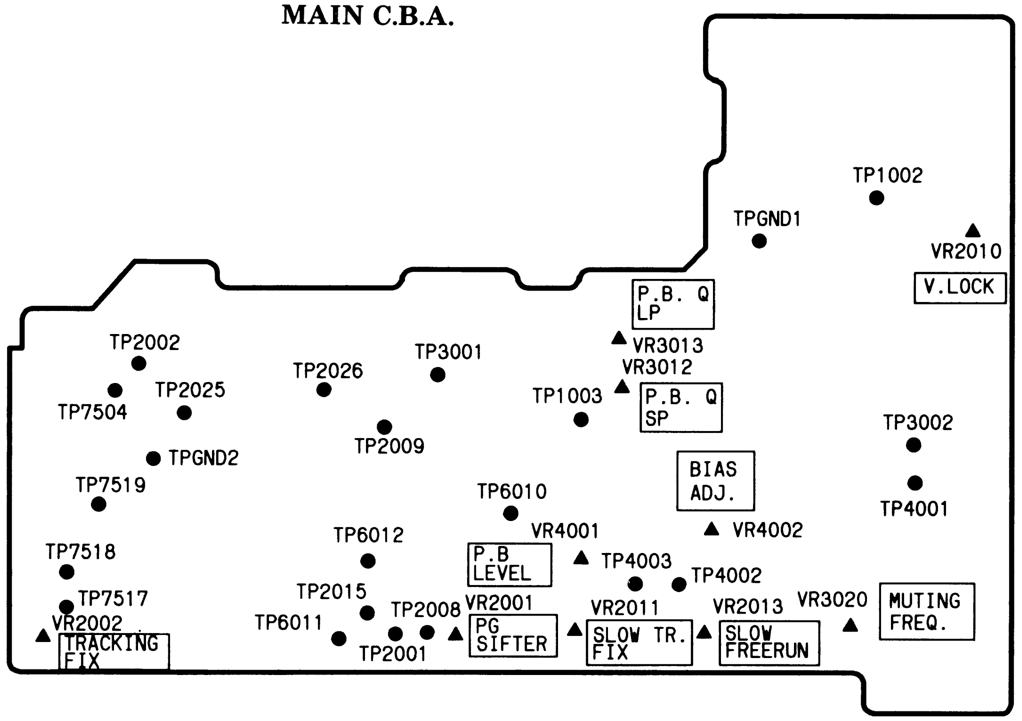
100Kohm
IC3002-9
2SC2377
1Kohm
TO REG.12V
2SC2377
TO FREQUENCY COUNTER
10Kohm
0.01uF

Fig.E16

2. Make a short circuit between VIDEO IN and GND.
3. Adjust VR3020 so that the frequency becomes 15.625+-0.05KHz.

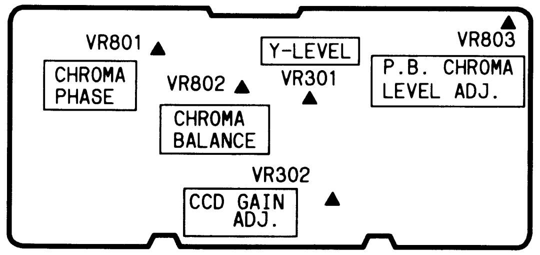
LOCATION OF TEST POINTS & CONTROLS — 1 —

MAIN C.B.A.



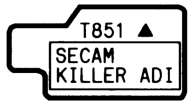
TP1002
TPGND1
VR2010
V.LOCK
P.B. Q LP
VR3013
VR3012
TP2002
TP2025
TP7504
TP2026
TP3001
TP1003
P.B. Q SP
TP3002
TP2009
TPGND2
BIAS ADJ.
TP7519
TP6010
TP4001
TP6012
VR4001
VR4002
TP7518
P.B LEVEL
TP4003
TP4002
TP7517
TP2015
TP2008
VR2001
VR2011
VR2013
VR3020
MUTING FREQ.
VR2002
TRACKING FIX
TP6011
TP2001
PG SIFTER
SLOW TR. FIX
SLOW FREERUN

LUMINANCE & CHROMINANCE PACK C.B.A.



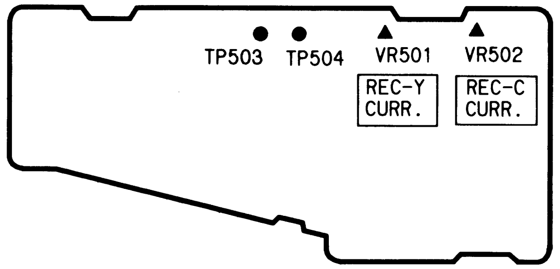
VR801
CHROMA PHASE
VR802
CHROMA BALANCE
Y-LEVEL
VR301
VR803
P.B. CHROMA LEVEL ADJ.
VR302
CCD GAIN ADJ.

SECAM PACK C.B.A. (NV-G45EG)



T851
SECAM KILLER ADI

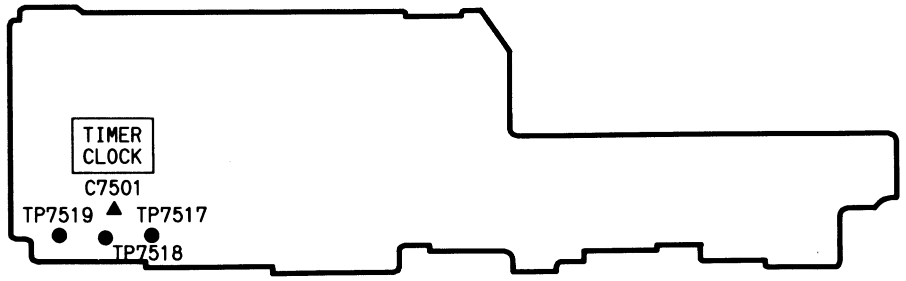
HEAD AMP C.B.A.



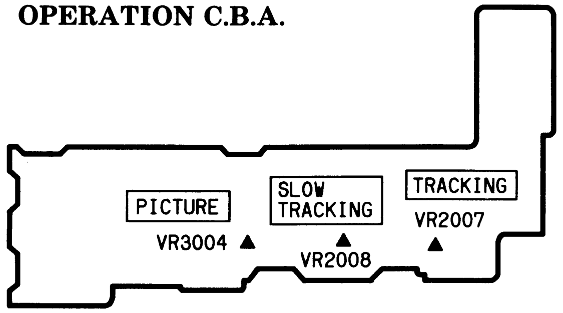
TP503
TP504
VR501
VR502
REC-Y CURR.
REC-C CURR.

LOCATION OF TEST POINTS & CONTROLS — 2 —

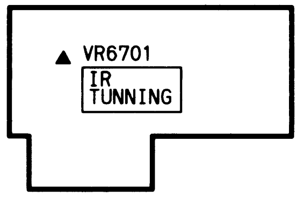
TIMER C.B.A.


TIMER CLOCK
C7501
TP7519
TP7517
TP7518

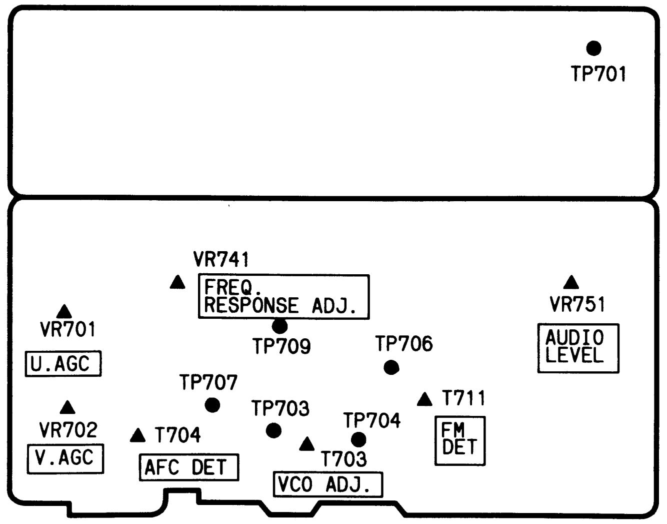
OPERATION C.B.A.


PICTURE
VR3004
SLOW TRACKING
VR2008
TRACKING
VR2007

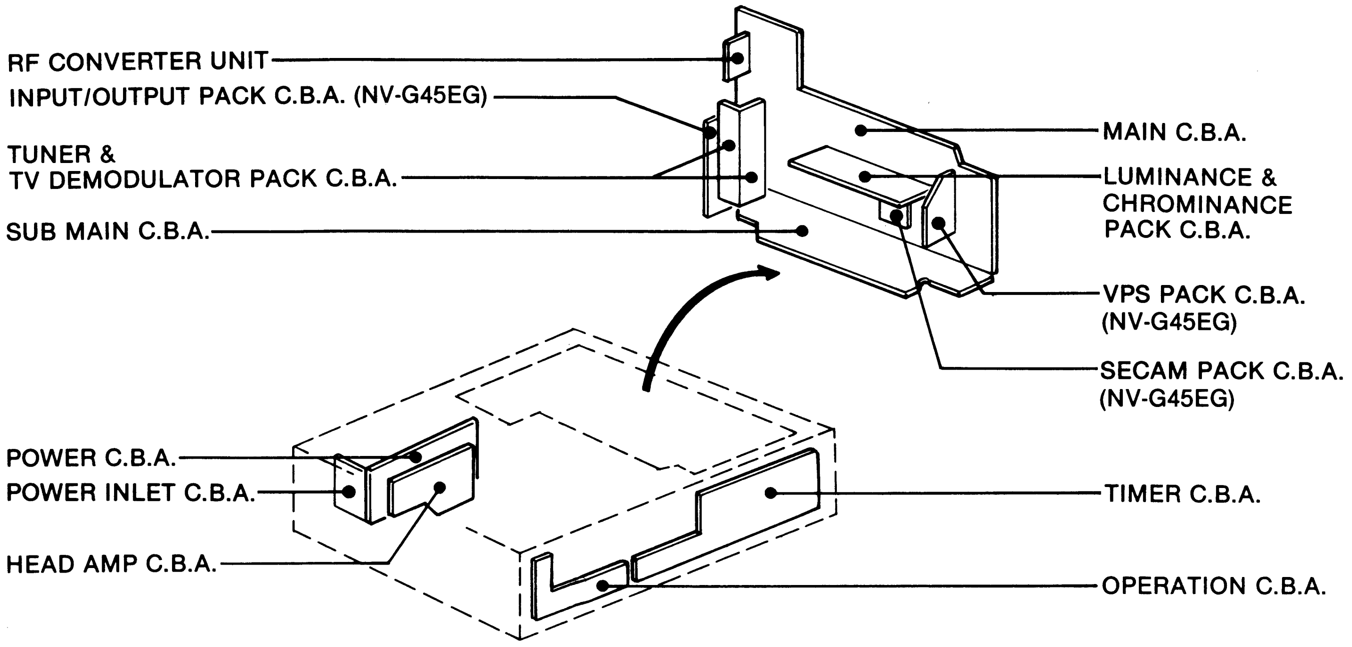
IR RECEIVER C.B.A.


VR6701
IR TUNNING

TUNER & TV DEMODULATOR PACK C.B.A.


TP701
VR741
FREQ. RESPONSE ADJ.
VR751
AUDIO LEVEL
VR701
U.AGC
TP709
TP706
TP707
T711
VR702
T704
TP703
TP704
FM DET
V.AGC
AFC DET
T703
VCO ADJ.

CIRCUIT BOARD LAYOUT


RF CONVERTER UNIT
INPUT/OUTPUT PACK C.B.A. (NV-G45EG)
TUNER & TV DEMODULATOR PACK C.B.A.
SUB MAIN C.B.A.
MAIN C.B.A.
LUMINANCE & CHROMINANCE PACK C.B.A.
VPS PACK C.B.A. (NV-G45EG)
SECAM PACK C.B.A. (NV-G45EG)
POWER C.B.A.
POWER INLET C.B.A.
HEAD AMP C.B.A.
TIMER C.B.A.
OPERATION C.B.A.

TIMER SECTION

Note:

1. Do not connect the AC power plug.
2. Make a short circuit at C7571 to discharge. (Refer to the Technical Information)

2-3-19. TIMER REFERENCE CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC7501-32	C7501		
TAPE	M.EQ.	SPEC.	
	FREQUENCY COUNTER	3906.25+-0.008us	

1. Set the voltage of the DC, power supply for 5.8V+-0.1V and supply it to P7502-8 (+) and GND (-).
2. Connect a jumper wire between P7502-7 and GND.
3. Connect a jumper wire between Anode and Cathode of D7537.

TV DEMODULATOR SECTION

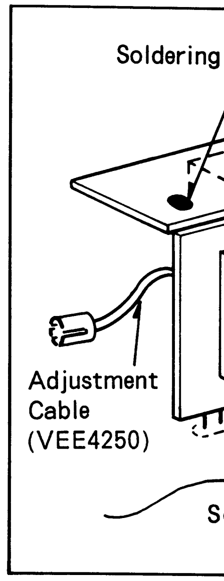
2-3-20. TEST EQUIPMENTS

To make adjustment completely, following equipments are required.

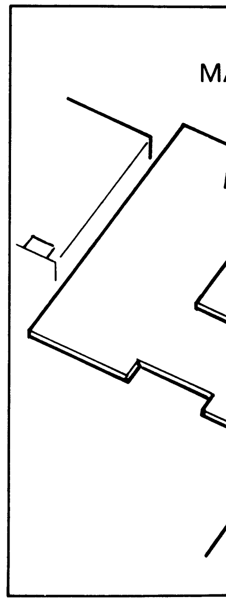
1. VIF SWEEP GENERATOR with the Trap Adjustor
   ....38.9MHz (NV-G45EG)
   ....39.5MHz (NV-G45B)
2. SIF SWEEP GENERATOR
   ....5.5MHz+-150KHz (NV-G45EG)
   ....6.0MHz+-150KHz (NV-G45B)
3. CW OSCILLATOR
   ....38.9MHz+-100KHZ (NV-G45EG)
   ....39.5MHz+-100KHz (NV-G45B)
4. MONITOR SCOPE
5. OSCILLOSCOPE
6. DIGITAL VOLT METER

Note1:

1. First, remove the screw and remove the TV Demodulator Pack C.B.A. from the Main C.B.A.
2. Unsolder the 2 soldering portions (B) and open the tuner section in TV Demodulator Pack C.B.A.

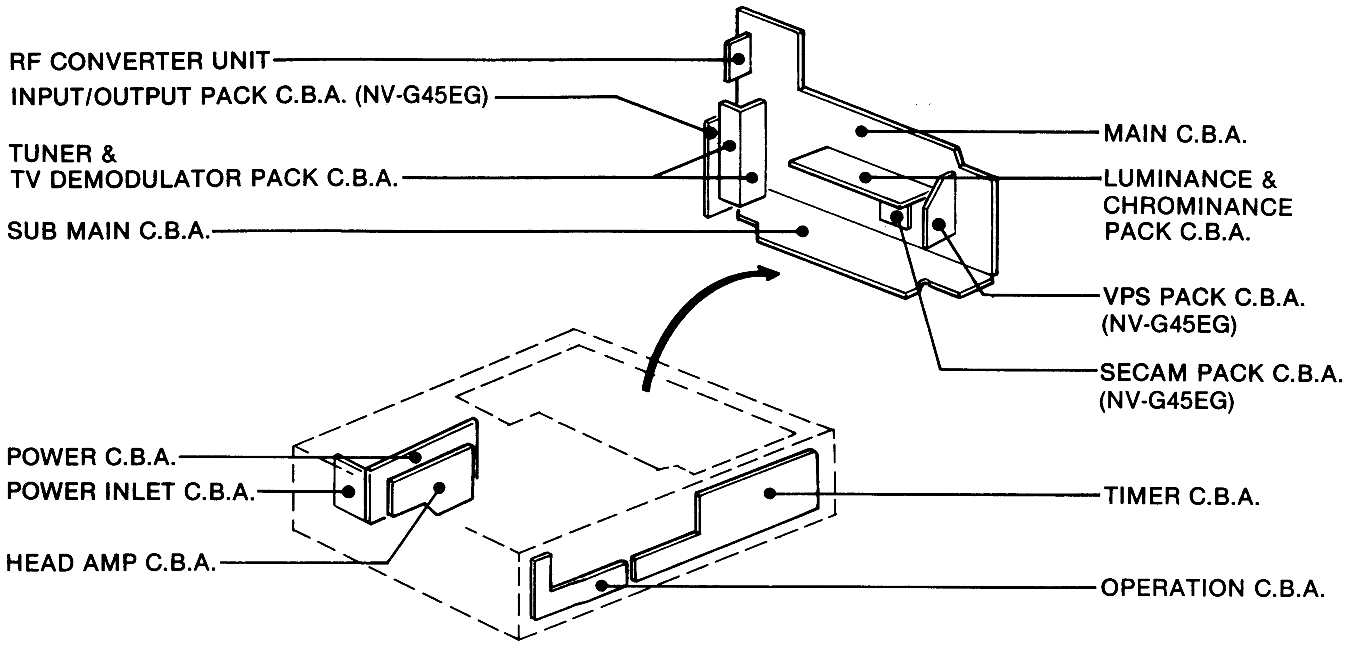

Soldering
Adjustment
Cable
(VEE4250)
S

3. Exchange the adjustment ca E15.
4. Reinstall the the Main C.B the soldering Pack C.B.A.



NOTE2:
Tomake adju following equip to each adjustm

CIRCUIT BOARD LAYOUT


RF CONVERTER UNIT
INPUT/OUTPUT PACK C.B.A. (NV-G45EG)
TUNER & TV DEMODULATOR PACK C.B.A.
SUB MAIN C.B.A.
MAIN C.B.A.
LUMINANCE & CHROMINANCE PACK C.B.A.
VPS PACK C.B.A. (NV-G45EG)
SECAM PACK C.B.A. (NV-G45EG)
POWER C.B.A.
POWER INLET C.B.A.
HEAD AMP C.B.A.
TIMER C.B.A.
OPERATION C.B.A.

TIMER SECTION

Note:
1. Do not connect the AC power plug.
2. Make a short circuit at C7571 to discharge. (Refer to the Technical Information)

2-3-19. TIMER REFERENCE CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC7501-32	C7501		
TAPE	M.EQ.	SPEC.	
	FREQUEN-CY COUNTER	3906.25+-0.008us	

1. Set the voltage of the DC, power supply for 5.8V+-0.1V and supply it to P7502-8 (+) and GND (-).
2. Connect a jumper wire between P7502-7 and GND.
3. Connect a jumper wire between Anode and Cathode of D7537.

TV DEMODULATOR SECTION

2-3-20. TEST EQUIPMENTS

To make adjustment completely, following equipments are required.

1. VIF SWEEP GENERATOR with the Trap Adjustor
   ....38.9MHz (NV-G45EG)
   ....39.5MHz (NV-G45B)
2. SIF SWEEP GENERATOR
   ....5.5MHz+-150KHz (NV-G45EG)
   ....6.0MHz+-150KHz (NV-G45B)
3. CW OSCILLATOR
   ....38.9MHz+-100KHZ (NV-G45EG)
   ....39.5MHz+-100KHz (NV-G45B)
4. MONITOR SCOPE
5. OSCILLOSCOPE
6. DIGITAL VOLT METER

Note1:
1. First, remove the screw and remove the TV Demodulator Pack C.B.A. from the Main C.B.A.
2. Unsolder the 2 soldering portions (B) and open the tuner section in TV Demodulator Pack C.B.A.

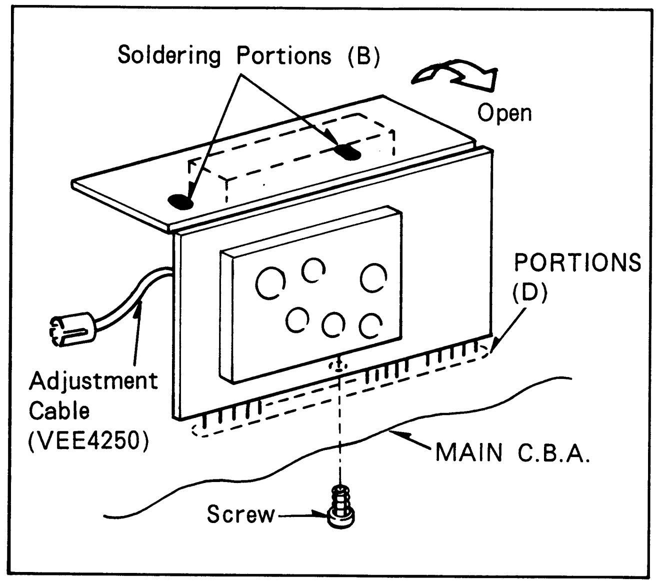

Soldering Portions (B)
Open
PORTIONS (D)
Adjustment Cable (VEE4250)
MAIN C.B.A.
Screw

Fig. E17

3. Exchange the original cable to newly develope adjustment cable (VEE4250) as shown in Fig. E15.
4. Reinstall the TV Demodulator Pack C.B.A. to the Main C.B.A. on foil side and finaly solder the soldering portions of the TV Demodulator Pack C.B.A.

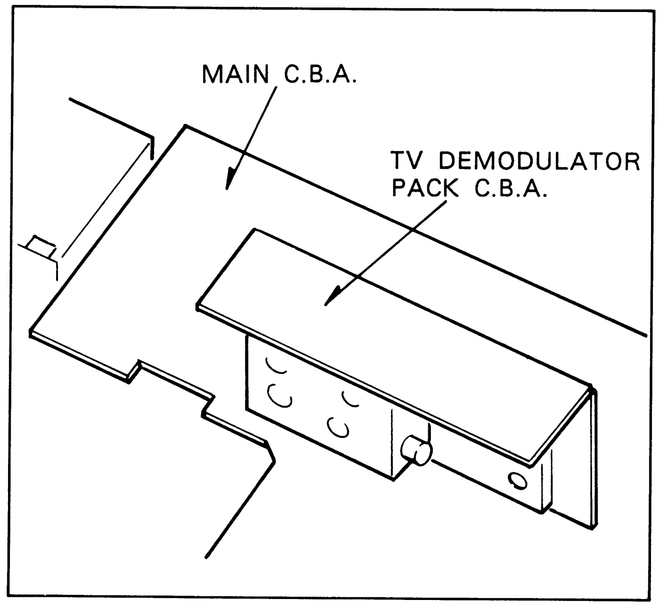

MAIN C.B.A.
TV DEMODULATOR PACK C.B.A.

Fig. E18

NOTE2:
Tomake adjustments, please prepare the following equipments and install them according to each adjustment items.

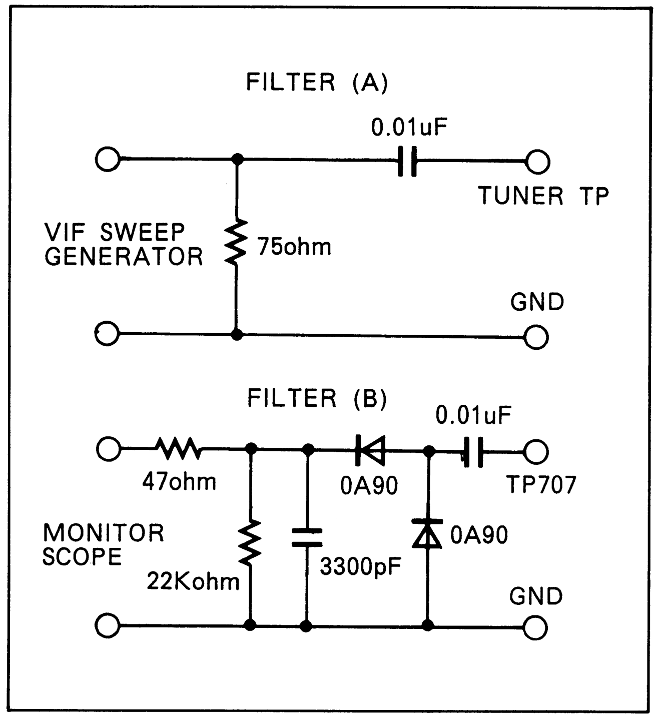

FILTER (A)
0.01uF
TUNER TP
VIF SWEEP GENERATOR
75ohm
GND
FILTER (B)
0.01uF
47ohm
0A90
TP707
MONITOR SCOPE
22Kohm
3300pF
0A90
GND

Fig. E19

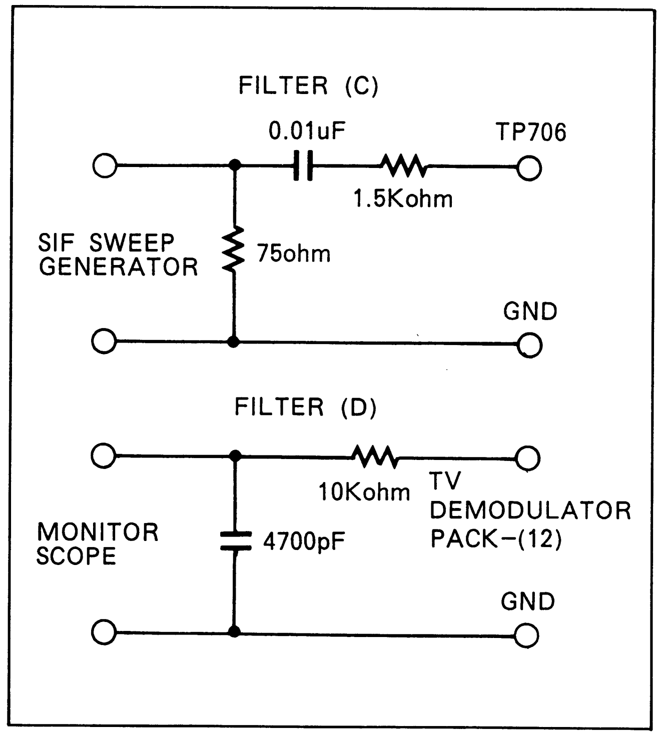

FILTER (C)
0.01uF
TP706
1.5Kohm
SIF SWEEP GENERATOR
75ohm
GND
FILTER (D)
10Kohm
TV DEMODULATOR PACK-(12)
MONITOR SCOPE
4700pF
GND

Fig. E20

2-3-21. VIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T703 (X717:EG) TUNER CONVERTER COIL		VIF SWEEP
TAPE	M.EQ.	SPEC.	
	VIF SWEEP/ MONITOR SCOPE	Refer to VIF Specification Chart (Fig. E24)	

1. Set the BAND SW of the deck for as shown in Fig.E21. And adjust the SEARCH Button (+,−) so that the voltage at BT terminal of the tuner becomes 15V+−1V.
2. Set the AFC SW of the deck for OFF mode.
3. Connect a jumper wire between TUNER AGC terminal and GND. And connect a capacitor (50V,1uF) between TP703 and GND.
4. Connect the VIF sweep generator to TUNER TEST POINT through the FILTER JIG (A) as shown in Fig. E19. And connect the MONITOR SCOPE to TP707 through the FILTER JIG (B) as shown in Fig. E19.
5. Adjust the T703 so that the marker position (A) becomes centre position of f1 and f2 as shown in Fig. E24.
6. Preadjust the X717 and Tuner Converter Coil so that the sweep output waveform becomes maximum and then adjust the X717 and tuner Converter Coil so that the waveform becomes as shown in Fig. E24.(NV−G45EG ONLY)
7. Adjust the output of the VIF sweep generator so that the sweep wave becomes 0.3Vp−p. Then release 20dB attenuation from the attenuator of the VIF sweep generator.
8. Connect the variable resistor JIG (E) to both points TP709 and TV Demodulator Pack −(2) as shown in below.

Model No.	BAND	BAND SW
NV−G45EG	VHF Low	I
NV−G45B	UHF	U

Fig. E21

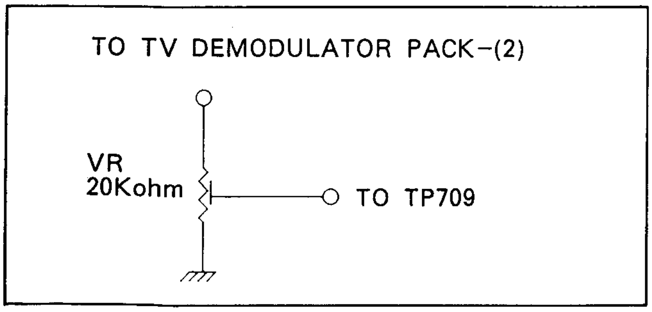


Fig. E22 ADJUSTMENT JIG (E)

9. Adjust the VR of the JIG (E) so that the output of the sweep wave becomes 0.3Vp−p.

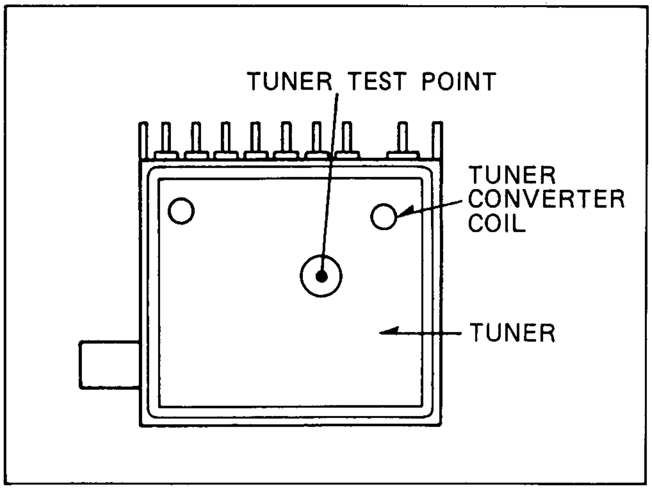
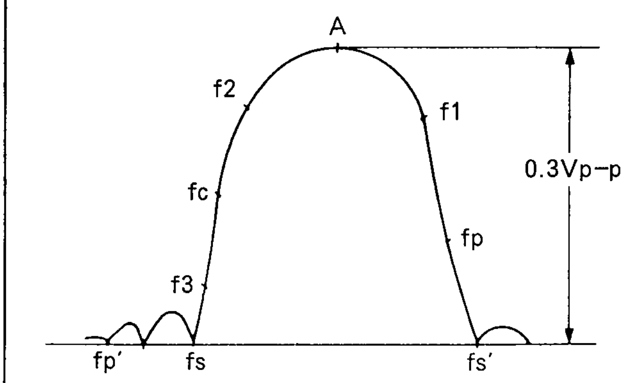


Fig. E23

10. Adjust the TUNER CONVERTER COIL so that the fp trap and fc trap as shown below.



VIF WAVEFORM

		NV−G45EG	NV−G45B
MARKER FREQUENCY	fs'	40.4MHz	41.5MHz
	fp	38.9MHz	39.5MHz
	f1	38.15MHz	38.6MHz
	f2	35.22MHz	35.5MHz
	fc	34.47MHz	35.07MHz
	f3	33.97MHz	34.57MHz
	fs	33.4MHz	33.5MHz
	fp'	31.9MHz	31.5MHz
SPECIFICATIONS	fp	30+−5%	25+−5%
	fc	33∼55%	30∼50%

Fig. E24

2-3-22. SIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
AUDIO OUT (TV DEMO-DULATOR PACK-12)	T711		SIF SWEEP
TAPE	M.EQ.	SPEC.	
	VIF SWEEP/ MONITOR SCOPE	A= A=5.5MHz (EG) A: A=6.0MHz (B)	

1. Set the BAND SW of the deck for as shown in Fig. E21. And adjust the SEARCH Button (+,-) so that the voltage at BT terminal of the tuner becomes 15V+-1V.
2. Set the AFC SW of the deck for OFF mode.
3. Connect the SIF sweep generator to TP706 through the FILTER JIG (C) as shown in Fig. E20. And connect the MONITOR SCOPE to AUDIO OUT through the FILTER JIG (D) as shown in Fig. E20.
4. Set the output of the SIF sweep generator for 250mVp-p at no load.
5. Connect the JIG (E) to both points TP709 and TV Demodulator Pack-(2) as shown in Fig. E22. Adjust the VR of the JIG (E) so that the D.C. level becomes less than 3V.
6. Adjust the T711 so that the SIF waveform becomes MAXIMUM and attenuation of (A) trap becomes MINIMUM.

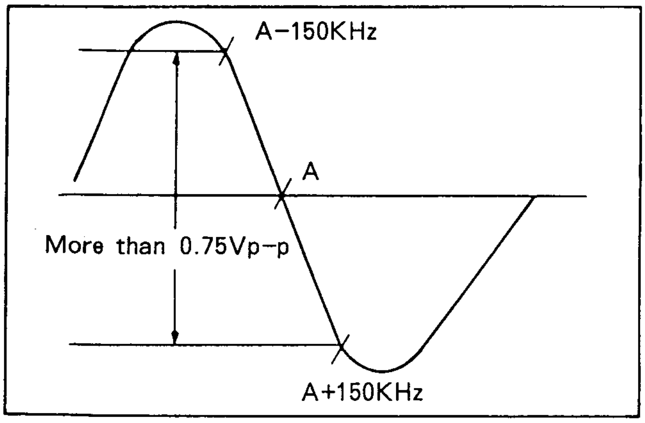


Fig. E25 SIF WAVEFORM

7. Comform that the level between (A)+-150KHz marker position is more than 0.75Vp-p.

2-3-23. AFC ADJUSTMENT

TP	ADJ.	MODE	INPUT
AFC TERMINAL OF THE TUNER	T704		CW SIGNAL
TAPE	M.EQ.	SPEC.	
	CW OSCILLA-TOR/D.V.M.	A=38.9MHz	

1. Set the BAND SW of the deck for as shown in Fig. E21. And adjust the SEARCH Button (+,-) so that the voltage at BT terminal of the tuner becomes 15V+-1V.
2. Set the AFC SW of the deck for OFF mode.
3. Set the CW oscillator output to "A" MHz and 1Vp-p. And connect the CW oscillator output to the TUNER TEST POINT.
4. Connect the D.V.M. to the AFC terminal of the tuner.
5. Read the value "B" of the D.V.M., when the AFC SW is OFF mode.
6. Set the AFC SW for ON mode and adjust T704 for "B"+-0.3V.
7. Change the frequency of the CW oscillator to "A"(MHz)+-100KHz, and confirm the difference of the AFC voltage is more than +-2V respective.

2-3-24. VIDEO FREQUENCY RESPONSE

TP	ADJ.	MODE	INPUT
VIDEO OUT (TV DEMO-DULATOR PACK-5)	VR741		VIF SWEEP
TAPE	M.EQ.	SPEC.	
	OSCILLO-SCOPE/ VIF SWEEP	A=80% (B) A=70% (EG)	

1. Connect the VIF sweep generator to the tuner unit directly after removing the connector from RF converter.
2. Set the BAND SW for as shown in Fig. E21. And tune the VIF sweep signal.
3. Set the AFC SW for ON mode.
4. Set the output of the VIF sweep generator to 800mVp-p.
5. Adjust VR741 so that the waveform at the VIDEO out (TV DEMODULATOR PACK-5) becomes as show in below.

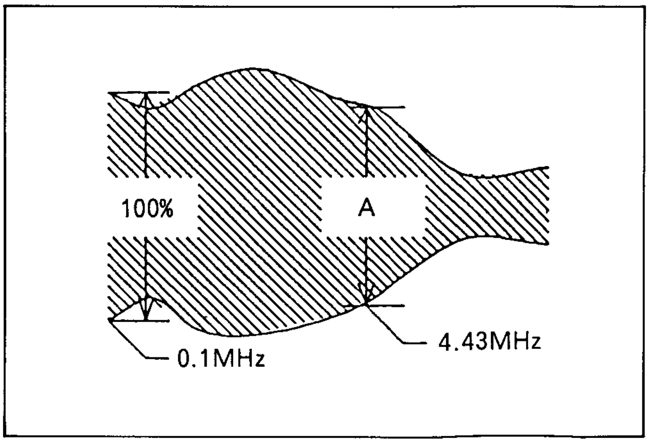


Fig. E26

2-3-25. AUDIO LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
AUDIO OUT (TV DEMODULATOR PACK-12)	VR751		RF SIGNAL
TAPE	**M.EQ.**	**SPEC.**	
	OSCILLOSCOPE	120+-10mVp-p	

1. Set the AFC SW for ON position.
2. Supply RF signal to the RF IN terminal and tune this signal.
3. Adjust the VR751 so that the audio level becomes 120+-10mVp-p.

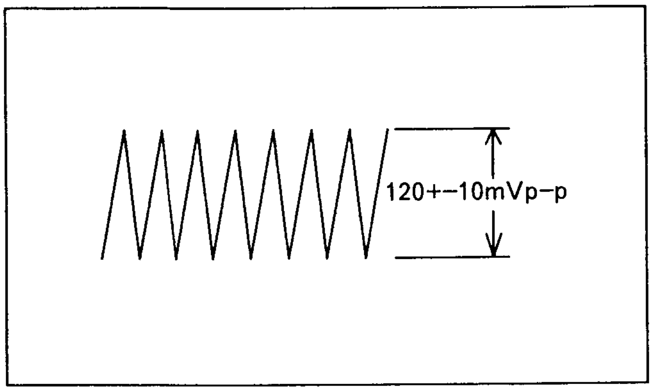
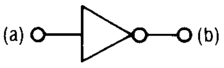
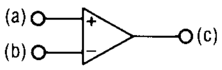
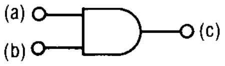
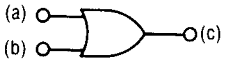


Fig. E27

<table>
<tr><th>SYMBOL</th><th>TRUTH VALUE TABLE</th></tr>
<tr><td>INVERTER
 </td><td><table><tr><td>IN</td><td>(a)</td><td>H</td><td>L</td></tr><tr><td>OUT</td><td>(b)</td><td>L</td><td>H</td></tr></table></td></tr>
<tr><td>COMPARTOR
 </td><td><table><tr><td>IN</td><td>(a)
(b)</td><td>(a)>(b)</td><td>(a)<(b)</td></tr><tr><td>OUT</td><td>(c)</td><td>H</td><td>L</td></tr></table></td></tr>
<tr><td>AND CIRCUIT
 </td><td><table><tr><td rowspan="2">IN</td><td>(a)</td><td>L</td><td>L</td><td>H</td><td>H</td></tr><tr><td>(b)</td><td>L</td><td>H</td><td>L</td><td>H</td></tr><tr><td>OUT</td><td>(c)</td><td>L</td><td>L</td><td>L</td><td>H</td></tr></table></td></tr>
<tr><td>OR CIRCUIT
 </td><td><table><tr><td rowspan="2">IN</td><td>(a)</td><td>L</td><td>L</td><td>H</td><td>H</td></tr><tr><td>(b)</td><td>L</td><td>H</td><td>L</td><td>H</td></tr><tr><td>OUT</td><td>(c)</td><td>L</td><td>H</td><td>H</td><td>H</td></tr></table></td></tr>
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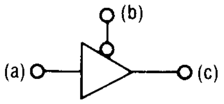
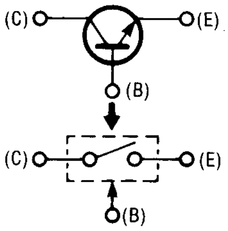
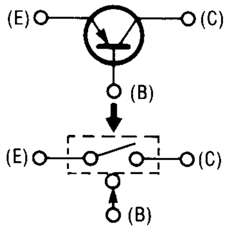
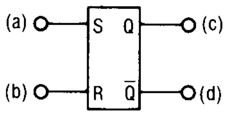
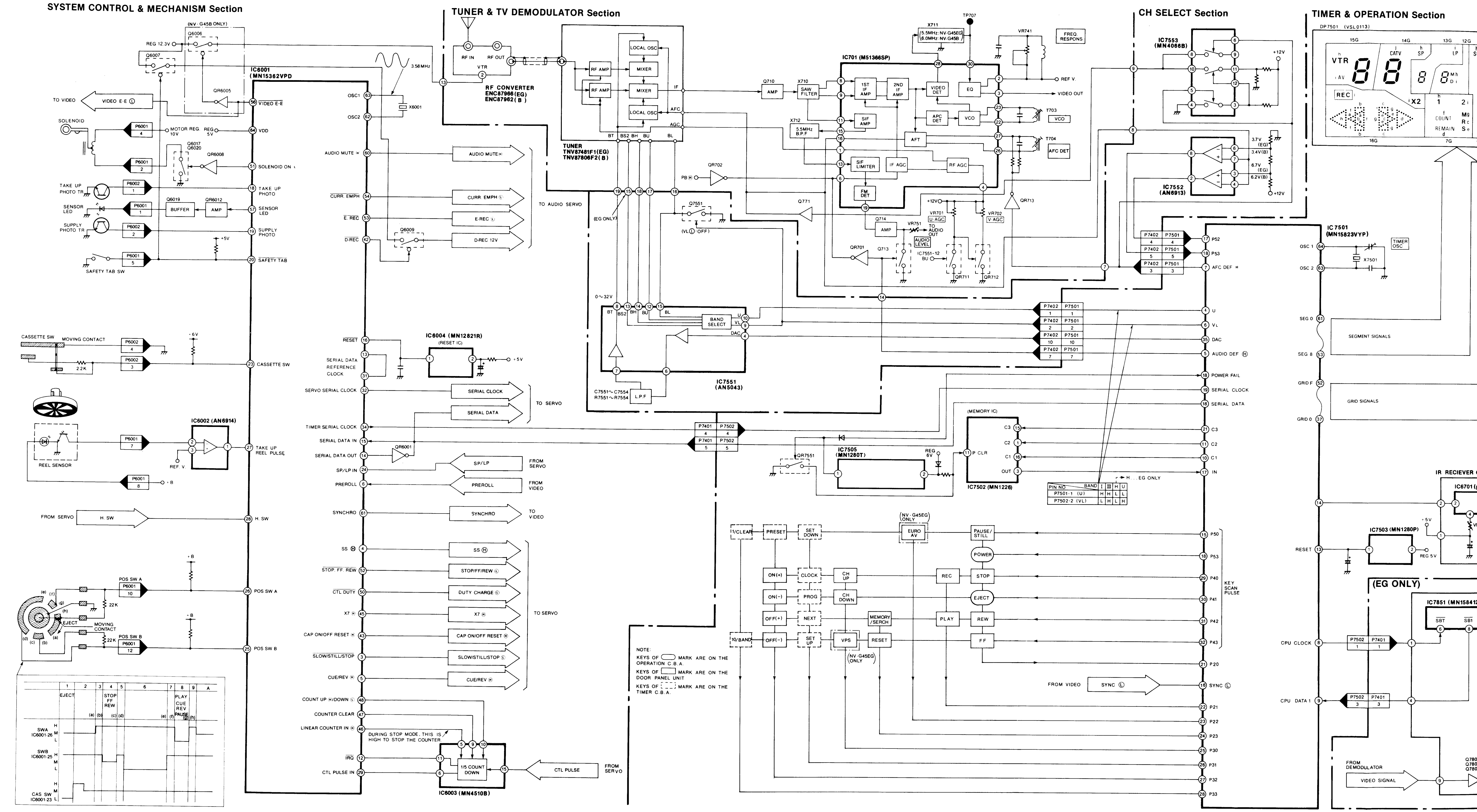
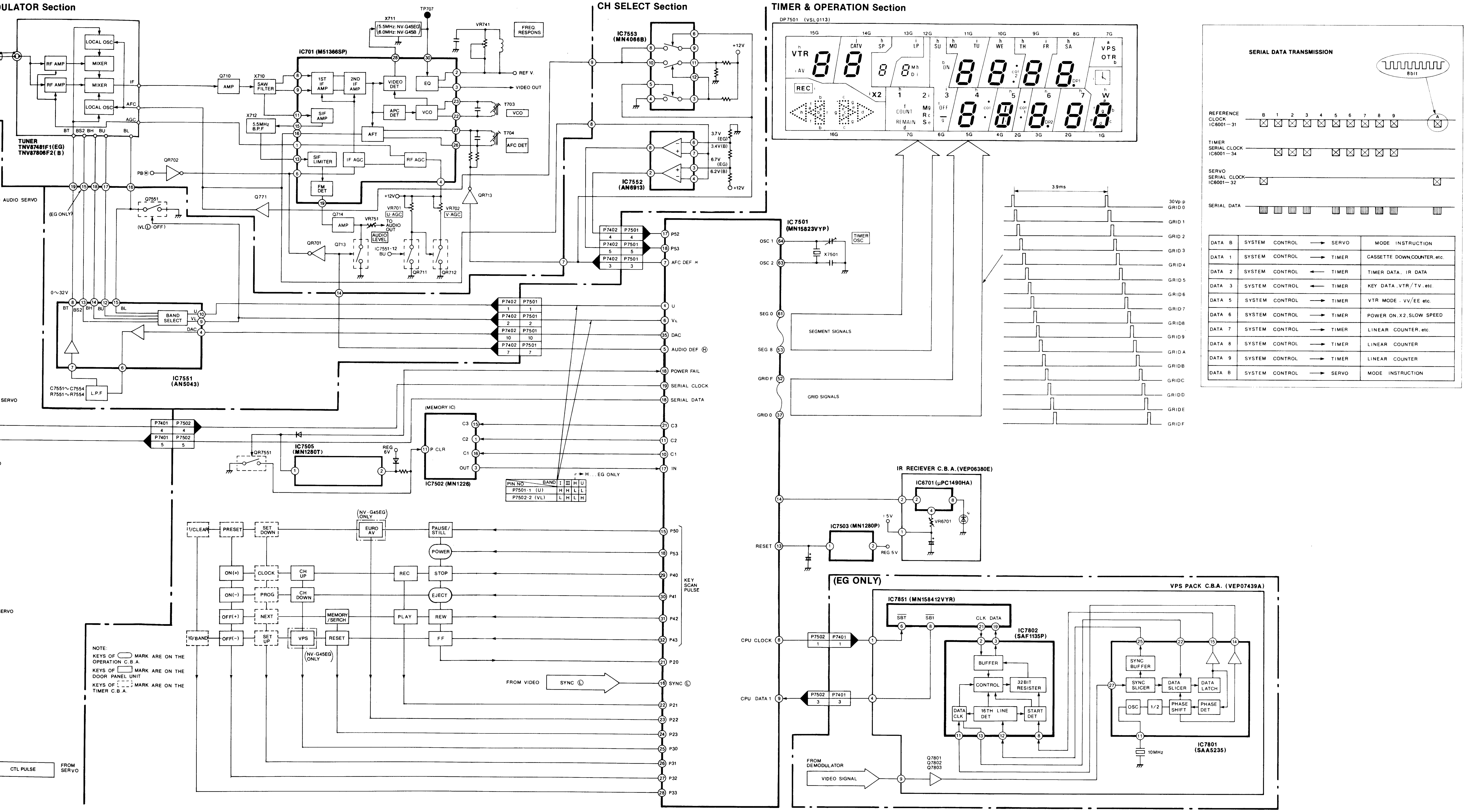
 </td><td><table><tr><td rowspan="2">IN</td><td>(a)</td><td>H</td><td>L</td><td>H or L</td></tr><tr><td>(b)</td><td>L</td><td>L</td><td>H</td></tr><tr><td>OUT</td><td>(c)</td><td>H</td><td>L</td><td>※</td></tr></table>※ High Impedance</td></tr>
<tr><td>TR. SW (NPN TYPE)
 </td><td><table><tr><td>BASE</td><td>H</td><td>L</td></tr><tr><td>TR. SW</td><td>ON</td><td>OFF</td></tr></table></td></tr>
<tr><td>TR. SW (PNP TYPE)
 </td><td><table><tr><td>BASE</td><td>H</td><td>L</td></tr><tr><td>TR. SW</td><td>OFF</td><td>ON</td></tr></table></td></tr>
<tr><td>R-S TYPE FLIP-FLOP
 </td><td><table><tr><td rowspan="2">IN</td><td>(a)</td><td>L</td><td>L</td><td>⎍</td></tr><tr><td>(b)</td><td>L</td><td>⎍</td><td>L</td></tr><tr><td rowspan="2">OUT</td><td>(c)</td><td>※</td><td>L</td><td>H</td></tr><tr><td>(d)</td><td>◆</td><td>H</td><td>L</td></tr></table>※ Initial condition is maintained.
◆ Initial condition is reverced.</td></tr>
</table>

SECTION 3
BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS
3-1. SYSTEM CONTROL & TIMER BLOCK DIAGRAM


SYSTEM CONTROL & MECHANISM Section
TUNER & TV DEMODULATOR Section
CH SELECT Section
TIMER & OPERATION Section
IC6001 (MN15362VPD)
IC6002 (AN6914)
IC6003 (MN4510B)
IC6004 (MN12821R)
RF CONVERTER ENC87966(EG) ENC87962(B)
TUNER TNV87481F1(EG) TNV87806F2(B)
IC701 (M51366SP)
IC7551 (AN5043)
IC7553 (MN4066B)
IC7552 (AN6913)
IC7501 (MN15823VYP)
IC7505 (MN1280T)
IC7502 (MN1226)
IC7503 (MN1280P)
DP7501 (VSL0113)
TO VIDEO
SOLENOID
TAKE UP PHOTO TR
SENSOR LED
SUPPLY PHOTO TR
SAFETY TAB SW
CASSETTE SW
REEL SENSOR
FROM SERVO
TO AUDIO SERVO
TO SERVO
FROM VIDEO
TO VIDEO
FROM SERVO
CTL PULSE
DURING STOP MODE, THIS IS HIGH TO STOP THE COUNTER
EJECT
MOVING CONTACT
POS SW A
POS SW B
SWA IC6001-26
SWB IC6001-25
CAS SW IC6001-23
KEY SCAN PULSE
FROM DEMODULATOR
VIDEO SIGNAL
SEGMENT SIGNALS
GRID SIGNALS
IR RECIEVER
(EG ONLY)
IC7851 (MN15841
CPU CLOCK
CPU DATA 1
RESET
PIN NO. BAND I III H U
P7501-1 (U) H H L L
P7502-2 (VL) L H L H
H...EG ONLY
NOTE:
KEYS OF ⬭ MARK ARE ON THE OPERATION C.B.A.
KEYS OF ▭ MARK ARE ON THE DOOR PANEL UNIT
KEYS OF ┆ ┆ MARK ARE ON THE TIMER C.B.A.
ON(+)
ON(−)
OFF(+)
OFF(−)
PRESET
CLOCK
PROG
NEXT
SET DOWN
SET UP
CH UP
CH DOWN
MEMORY /SERCH
VPS
RESET
EURO AV
PAUSE/ STILL
POWER
STOP
EJECT
REW
FF
REC
PLAY
FROM VIDEO
SYNC

AMS


ULATOR Section
TUNER
TNV87481F1(EG)
TNV87806F2(B)
RF AMP
MIXER
LOCAL OSC
IF
AFC
AGC
BT BS2 BH BU BL
AUDIO SERVO
(EG ONLY)
PB Ⓗ
QR702
Q7551
(VL Ⓛ OFF)
Q771
Q710
AMP
X710
SAW FILTER
X711
(5.5MHz: NV-G45EG)
(6.0MHz: NV-G45B)
TP707
IC701 (M51366SP)
1ST IF AMP
2ND IF AMP
VIDEO DET
EQ
SIF AMP
APC DET
VCO
AFT
SIF LIMITER
IF AGC
RF AGC
FM DET
X712
5.5MHz B.P.F
VR741
FREQ RESPONS
REF V.
VIDEO OUT
T703
VCO
T704
AFC DET
QR713
+12V
VR701
U-AGC
VR702
V-AGC
Q714
AMP
VR751
TO AUDIO OUT
AUDIO LEVEL
QR701
Q713
IC7551-12 BU
QR711
QR712
0~32V
BAND SELECT
IC7551 (AN5043)
C7551~C7554
R7551~R7554
L.P.F
SERVO
CH SELECT Section
IC7553 (MN4066B)
IC7552 (AN6913)
3.7V (EG)
3.4V (B)
6.7V (EG)
6.2V (B)
P7402 P7501
P7401 P7502
TIMER & OPERATION Section
DP7501 (VSL0113)
VTR
AV
REC
X2
CATV
SP
LP
SU MO TU WE TH FR SA
VPS
OTR
COUNT
REMAIN
IC7501 (MN15823VYP)
TIMER OSC
X7501
OSC 1
OSC 2
SEG 0
SEG 8
GRID F
GRID 0
SEGMENT SIGNALS
GRID SIGNALS
P52
P53
AFC DEF H
U
VL
DAC
AUDIO DEF Ⓗ
POWER FAIL
SERIAL CLOCK
SERIAL DATA
C3
C2
C1
IN
(MEMORY IC)
IC7505 (MN1280T)
QR7551
REG 6V
P CLR
OUT
IC7502 (MN1226)
H...EG ONLY
3.9ms
30Vp-p
GRID 0
GRID 1
GRID 2
GRID 3
GRID 4
GRID 5
GRID 6
GRID 7
GRID 8
GRID 9
GRID A
GRID B
GRID C
GRID D
GRID E
GRID F
SERIAL DATA TRANSMISSION
8bit
REFERENCE CLOCK IC6001-31
TIMER SERIAL CLOCK IC6001-34
SERVO SERIAL CLOCK IC6001-32
SERIAL DATA
IR RECIEVER C.B.A. (VEP06380E)
IC6701 (μPC1490HA)
VR6701
IC7503 (MN1280P)
+5V
REG 5V
RESET
I/CLEAR
PRESET
SET DOWN
EURO AV
(NV-G45EG) ONLY
PAUSE/STILL
POWER
ON(+)
CLOCK
CH UP
REC
STOP
ON(−)
PROG
CH DOWN
EJECT
OFF(+)
NEXT
MEMORY/SERCH
PLAY
REW
10/BAND
OFF(−)
SET UP
VPS
(NV-G45EG) ONLY
RESET
FF
P50
P53
P40
P41
P42
P43
KEY SCAN PULSE
P20
SYNC Ⓛ
FROM VIDEO
P21
P22
P23
P30
P31
P32
P33
CTL PULSE
FROM SERVO
(EG ONLY)
VPS PACK C.B.A. (VEP07439A)
IC7851 (MN158412VYR)
SBT
SBI
CLK DATA
IC7802 (SAF1135P)
BUFFER
CONTROL
32BIT RESISTER
DATA CLK
16TH LINE DET
START DET
SYNC BUFFER
SYNC SLICER
DATA SLICER
DATA LATCH
OSC
1/2
PHASE SHIFT
PHASE DET
IC7801 (SAA5235)
10MHz
CPU CLOCK
CPU DATA 1
FROM DEMODULATOR
VIDEO SIGNAL
Q7801
Q7802
Q7803

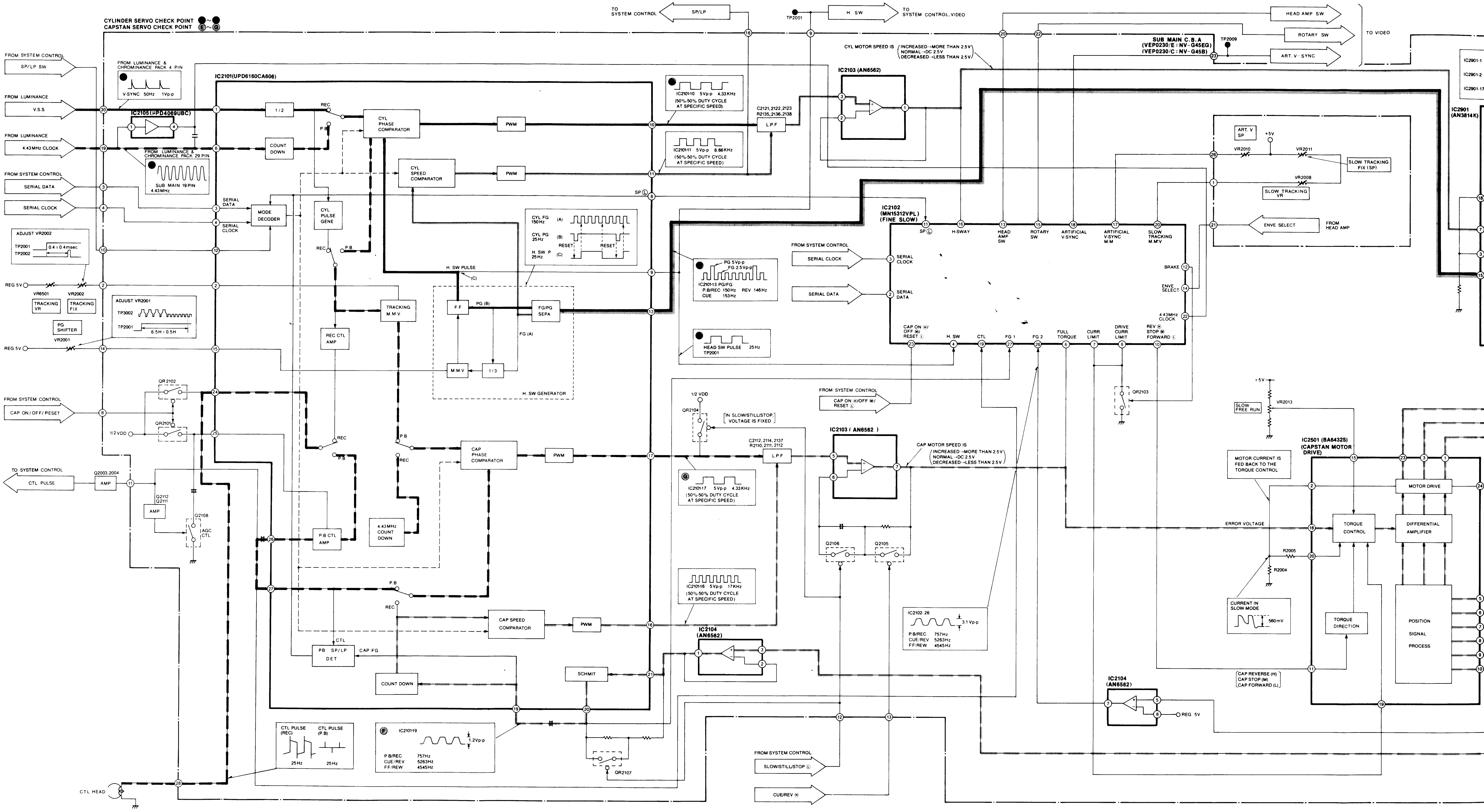
PIN NO \ BAND	I	III	H	U
P7501-1 (U)	H	H	L	L
P7502-2 (VL)	L	H	L	H

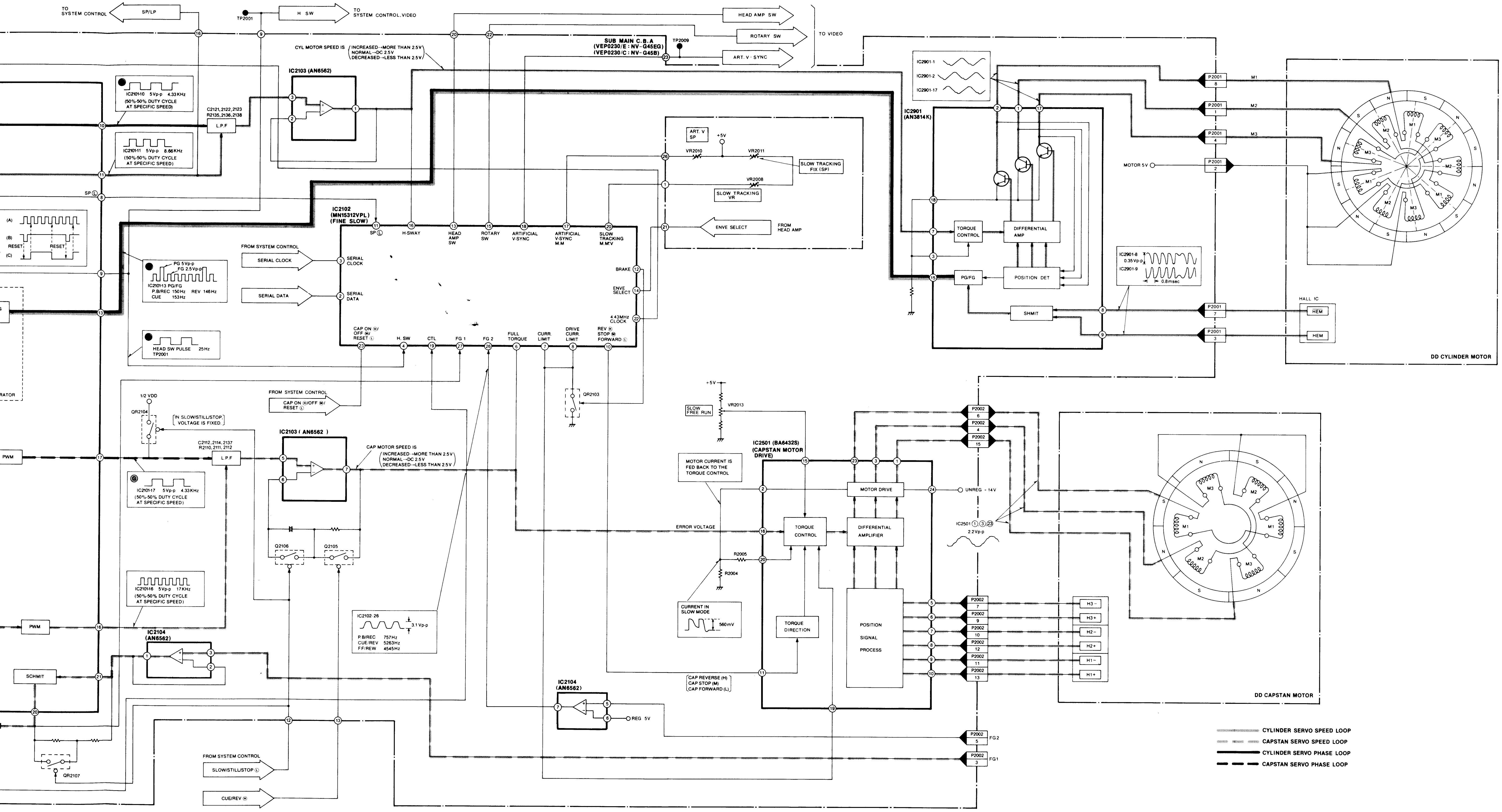
NOTE:
KEYS OF ⬭ MARK ARE ON THE OPERATION C.B.A.
KEYS OF ▭ MARK ARE ON THE DOOR PANEL UNIT
KEYS OF ⬚ MARK ARE ON THE TIMER C.B.A.

DATA B	SYSTEM CONTROL ⟶ SERVO	MODE INSTRUCTION
DATA 1	SYSTEM CONTROL ⟶ TIMER	CASSETTE DOWN,COUNTER, etc.
DATA 2	SYSTEM CONTROL ⟵ TIMER	TIMER DATA, IR DATA
DATA 3	SYSTEM CONTROL ⟵ TIMER	KEY DATA, VTR/TV, etc.
DATA 5	SYSTEM CONTROL ⟶ TIMER	VTR MODE, VV/EE etc.
DATA 6	SYSTEM CONTROL ⟶ TIMER	POWER ON, X2, SLOW SPEED
DATA 7	SYSTEM CONTROL ⟶ TIMER	LINEAR COUNTER, etc.
DATA 8	SYSTEM CONTROL ⟶ TIMER	LINEAR COUNTER
DATA 9	SYSTEM CONTROL ⟶ TIMER	LINEAR COUNTER
DATA B	SYSTEM CONTROL ⟶ SERVO	MODE INSTRUCTION

Next Page:
SERVO Section

3-2. SERVO BLOCK DIAGRAM


CYLINDER SERVO CHECK POINT ●~●
CAPSTAN SERVO CHECK POINT Ⓔ~Ⓖ
TO SYSTEM CONTROL
SP/LP
TP2001
H SW
TO SYSTEM CONTROL, VIDEO
HEAD AMP SW
ROTARY SW
ART. V · SYNC
TO VIDEO
SUB MAIN C.B.A (VEP0230/E : NV-G45EG) (VEP0230/C : NV-G45B)
TP2009
FROM SYSTEM CONTROL
SP/LP SW
FROM LUMINANCE
V.S.S
4.43MHz CLOCK
SERIAL DATA
SERIAL CLOCK
FROM LUMINANCE & CHROMINANCE PACK 4 PIN
V-SYNC 50Hz 1Vp-p
FROM LUMINANCE & CHROMINANCE PACK 29 PIN
SUB MAIN 19 PIN 4.43MHz
IC2101(UPD6160CA606)
IC2105(UPD4069UBC)
1/2
COUNT DOWN
REC
P.B
CYL PHASE COMPARATOR
PWM
CYL SPEED COMPARATOR
MODE DECODER
CYL PULSE GENE
IC2101-10 5Vp-p 4.33KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
IC2101-11 5Vp-p 8.66KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
C2121, 2122, 2123 R2135, 2136, 2138
L.P.F
IC2103 (AN6562)
CYL MOTOR SPEED IS INCREASED→MORE THAN 2.5V NORMAL→DC 2.5V DECREASED→LESS THAN 2.5V
ADJUST VR2002
TP2001 0.4±0.4msec
TP2002
REG 5V
VR6501
VR2002
TRACKING VR
TRACKING FIX
PG SHIFTER
VR2001
ADJUST VR2001
TP3002
TP2001 6.5H±0.5H
CYL FG 150Hz (A)
CYL PG 25Hz (B)
H. SW P 25Hz (C)
RESET
H. SW PULSE
TRACKING M.M.V
F.F
PG (B)
FG/PG SEPA
FG (A)
M.M.V
1/3
H. SW GENERATOR
REC CTL AMP
IC2101-13 PG/FG PG 5Vp-p FG 2.5Vp-p P.B/REC 150Hz REV 146Hz CUE 153Hz
HEAD SW PULSE 25Hz TP2001
IC2102 (MN15312VPL) (FINE SLOW)
SP Ⓛ
H-SWAY
HEAD AMP SW
ROTARY SW
ARTIFICIAL V-SYNC
ARTIFICIAL V-SYNC M.M
SLOW TRACKING M.M'V
SERIAL CLOCK
SERIAL DATA
BRAKE
ENVE SELECT
4.43MHz CLOCK
CAP ON Ⓗ/ OFF Ⓜ/ RESET Ⓛ
H. SW
CTL
FG 1
FG 2
FULL TORQUE
CURR. LIMIT
DRIVE CURR. LIMIT
REV Ⓗ STOP Ⓜ FORWARD Ⓛ
ART. V SP
+5V
VR2010
VR2011
SLOW TRACKING FIX (SP)
VR2008
SLOW TRACKING VR
ENVE SELECT
FROM HEAD AMP
IC2901-1
IC2901-2
IC2901-17
IC2901 (AN3814K)
FROM SYSTEM CONTROL
CAP ON / OFF / RESET
QR2102
QR2101
1/2 VDD
TO SYSTEM CONTROL
CTL PULSE
Q2003, 2004 AMP
Q2112 Q2111 AMP
Q2108 AGC CTL
CAP PHASE COMPARATOR
4.43MHz COUNT DOWN
P.B CTL AMP
1/2 VDD
QR2104
IN SLOW/STILL/STOP, VOLTAGE IS FIXED
C2112, 2114, 2137 R2110, 2111, 2112
Ⓖ IC2101-17 5Vp-p 4.33KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
IC2103 (AN6562)
CAP MOTOR SPEED IS INCREASED→MORE THAN 2.5V NORMAL→DC 2.5V DECREASED→LESS THAN 2.5V
Q2106
Q2105
QR2103
IC2101-16 5Vp-p 17KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
IC2102-26 3.1 Vp-p P.B/REC 757Hz CUE/REV 5263Hz FF/REW 4545Hz
CAP SPEED COMPARATOR
PB SP/LP DET
CAP FG
COUNT DOWN
SCHMIT
IC2104 (AN6562)
CTL PULSE (REC) 25Hz
CTL PULSE (P.B) 25Hz
Ⓕ IC2101-19 1.2Vp-p P.B/REC 757Hz CUE/REV 5263Hz FF/REW 4545Hz
QR2107
FROM SYSTEM CONTROL
SLOW/STILL/STOP Ⓛ
CUE/REV Ⓗ
CTL HEAD
SLOW FREE RUN
VR2013
IC2501 (BA6432S) (CAPSTAN MOTOR DRIVE)
MOTOR CURRENT IS FED BACK TO THE TORQUE CONTROL
MOTOR DRIVE
ERROR VOLTAGE
TORQUE CONTROL
DIFFERENTIAL AMPLIFIER
R2005
R2004
CURRENT IN SLOW MODE 560mV
TORQUE DIRECTION
POSITION SIGNAL PROCESS
CAP REVERSE (H) CAP STOP (M) CAP FORWARD (L)
IC2104 (AN6562)
REG 5V


TO SYSTEM CONTROL
SP/LP
TP2001
H SW
TO SYSTEM CONTROL, VIDEO
HEAD AMP SW
ROTARY SW
ART. V · SYNC
TO VIDEO
SUB MAIN C.B.A (VEP0230/E : NV-G45EG) (VEP0230/C : NV-G45B)
TP2009
CYL MOTOR SPEED IS (INCREASED→MORE THAN 2.5V NORMAL→DC 2.5V DECREASED→LESS THAN 2.5V)
IC2103 (AN6562)
IC2101-10 5Vp-p 4.33KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
IC2101-11 5Vp-p 8.66KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
C2121, 2122, 2123 R2135, 2136, 2138
L.P.F
SP Ⓛ
RESET
PG 5Vp-p FG 2.5Vp-p
IC2101-13 PG/FG P.B/REC 150Hz REV 146Hz CUE 153Hz
HEAD SW PULSE 25Hz TP2001
IC2102 (MN15312VPL) (FINE SLOW)
SP Ⓛ
H-SWAY
HEAD AMP SW
ROTARY SW
ARTIFICIAL V-SYNC
ARTIFICIAL V-SYNC M.M
SLOW TRACKING M.M.V
FROM SYSTEM CONTROL
SERIAL CLOCK
SERIAL DATA
BRAKE
ENVE SELECT
4.43MHz CLOCK
CAP ON Ⓗ/OFF Ⓜ/RESET Ⓛ
H. SW
CTL
FG 1
FG 2
FULL TORQUE
CURR. LIMIT
DRIVE CURR. LIMIT
REV Ⓗ STOP Ⓜ FORWARD Ⓛ
ART. V SP
+5V
VR2010
VR2011
SLOW TRACKING FIX (SP)
VR2008
SLOW TRACKING VR
ENVE SELECT
FROM HEAD AMP
QR2103
FROM SYSTEM CONTROL
CAP ON Ⓗ/OFF Ⓜ/RESET Ⓛ
1/2 VDD
QR2104
IN SLOW/STILL/STOP, VOLTAGE IS FIXED.
PWM
C2112, 2114, 2137 R2110, 2111, 2112
IC2103 (AN6562)
CAP MOTOR SPEED IS (INCREASED→MORE THAN 2.5V NORMAL→DC 2.5V DECREASED→LESS THAN 2.5V)
IC2101-17 5Vp-p 4.33KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
Q2106
Q2105
IC2101-16 5Vp-p 17KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
IC2102-26 3.1Vp-p P.B/REC 757Hz CUE/REV 5263Hz FF/REW 4545Hz
IC2104 (AN6562)
SCHMIT
QR2107
FROM SYSTEM CONTROL
SLOW/STILL/STOP Ⓛ
CUE/REV Ⓗ
IC2104 (AN6562)
REG 5V
IC2901-1
IC2901-2
IC2901-17
IC2901 (AN3814K)
TORQUE CONTROL
DIFFERENTIAL AMP
PG/FG
POSITION DET
SHMIT
IC2901-8 0.35Vp-p IC2901-9 0.8msec
MOTOR 5V
P2001
M1
M2
M3
HALL IC
HEM
DD CYLINDER MOTOR
+5V
SLOW FREE RUN
VR2013
IC2501 (BA6432S) (CAPSTAN MOTOR DRIVE)
MOTOR CURRENT IS FED BACK TO THE TORQUE CONTROL
MOTOR DRIVE
UNREG +14V
ERROR VOLTAGE
TORQUE CONTROL
DIFFERENTIAL AMPLIFIER
IC2501 ①③㉓ 2.2Vp-p
R2005
R2004
CURRENT IN SLOW MODE 560mV
TORQUE DIRECTION
POSITION SIGNAL PROCESS
CAP REVERSE (H) CAP STOP (M) CAP FORWARD (L)
P2002
H3−
H3+
H2−
H2+
H1−
H1+
DD CAPSTAN MOTOR
FG2
FG1
CYLINDER SERVO SPEED LOOP
CAPSTAN SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
CAPSTAN SERVO PHASE LOOP

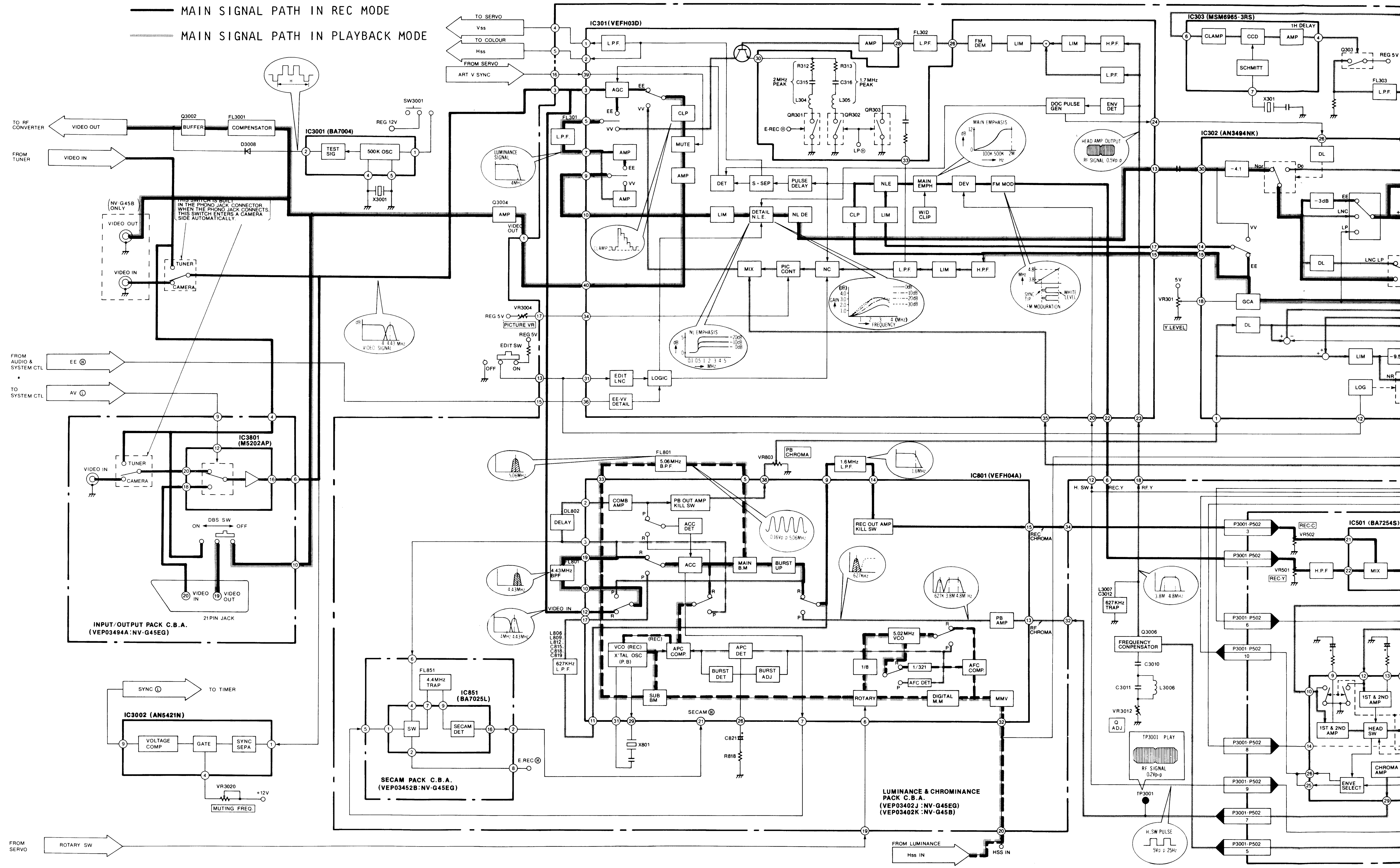
3-3. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE

5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE

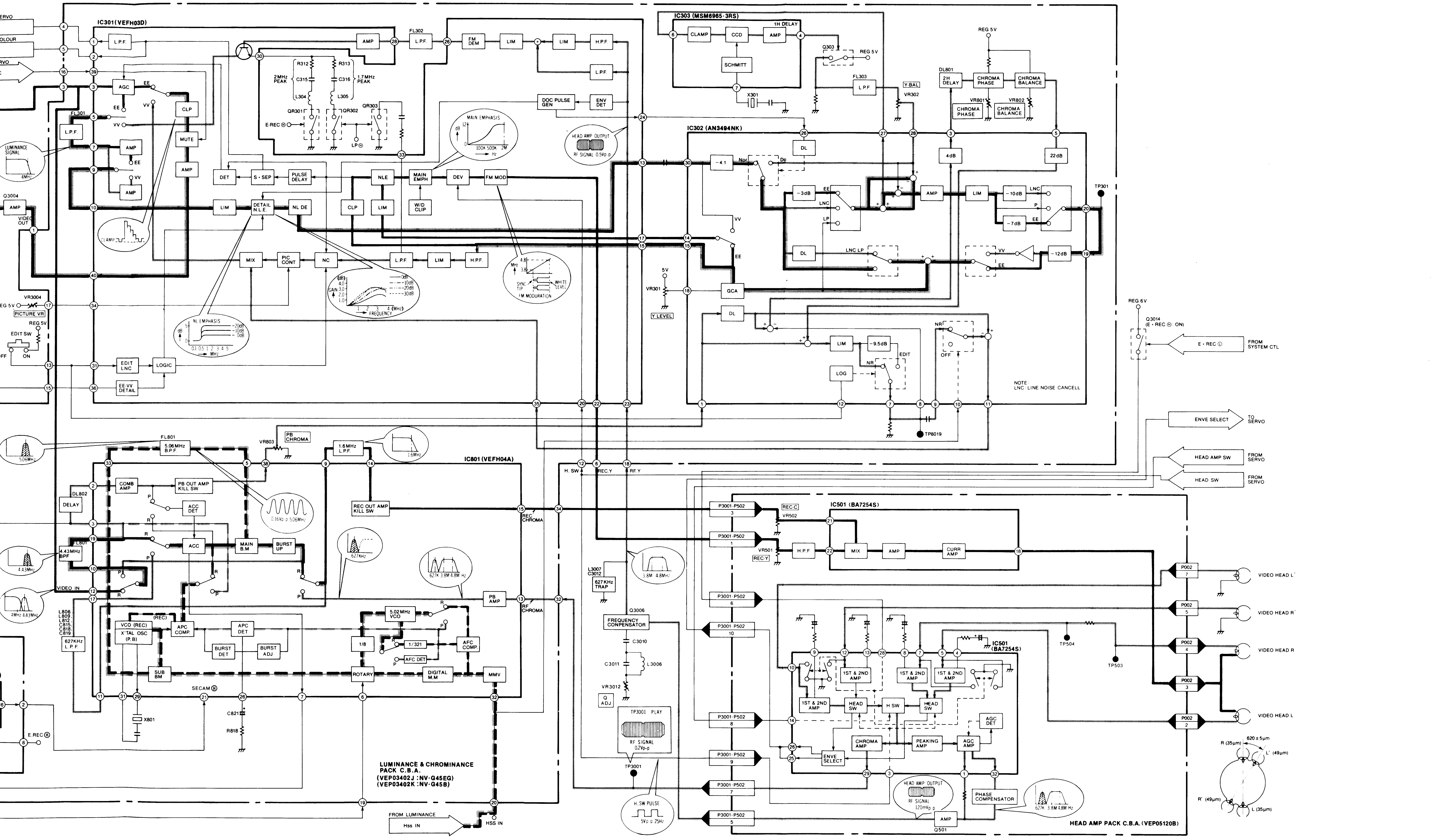
MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE



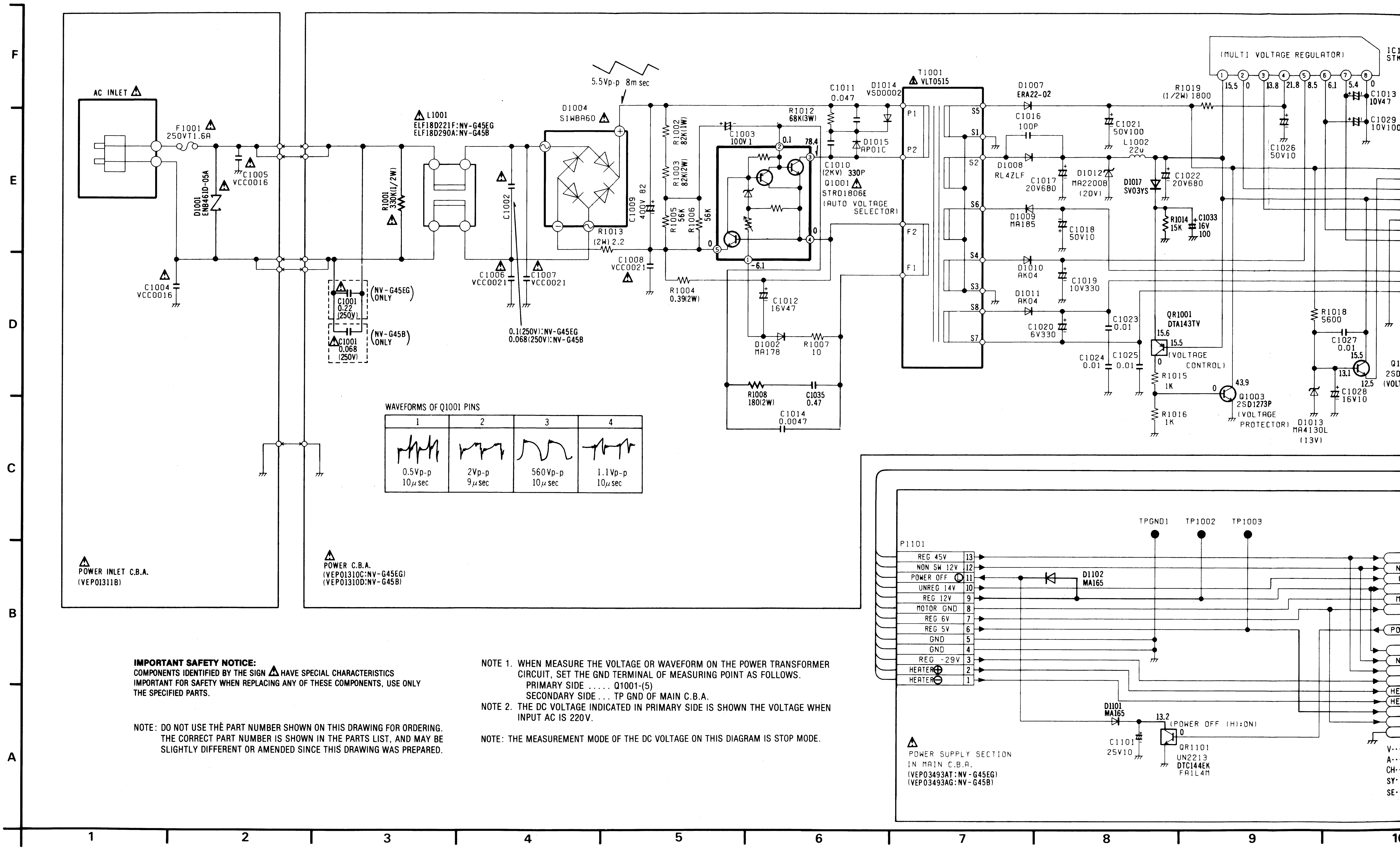
TO SERVO
Vss
TO COLOUR
Hss
FROM SERVO
ART V SYNC
IC301 (VEFH03D)
L.P.F.
AGC
EE
VV
CLP
MUTE
AMP
FL301
LUMINANCE SIGNAL
4MHz
AMP
DET
S-SEP
PULSE DELAY
LIM
DETAIL N.L.E.
NL DE
MIX
PIC CONT
NC
FL302
FM DEM
LIM
H.P.F
R312
R313
2MHz PEAK
C315
C316
1.7MHz PEAK
L304
L305
QR301
QR302
QR303
E-REC
LP
DOC PULSE GEN
ENV DET
MAIN EMPHASIS
100K 500K 2M
HEAD AMP OUTPUT
RF SIGNAL 0.5Vp-p
NLE
MAIN EMPH
DEV
FM MOD
W/D CLIP
CLP
L.P.F
(dB) GAIN
FREQUENCY
SYNC TIP
WHITE LEVEL
FM MODURATION
NL EMPHASIS
IC303 (MSM6965-3RS)
1H DELAY
CLAMP
CCD
SCHMITT
X301
Q303
REG 5V
FL303
IC302 (AN3494NK)
DL
-4.1
Nor
Do
-3dB
LNC
LP
LNC LP
VV
EE
5V
VR301
Y LEVEL
GCA
LIM
LOG
NR
TO RF CONVERTER
VIDEO OUT
Q3002
BUFFER
FL3001
COMPENSATOR
FROM TUNER
VIDEO IN
D3008
IC3001 (BA7004)
TEST SIG
500K OSC
X3001
SW3001
REG 12V
(NV-G45B ONLY)
VIDEO OUT
VIDEO IN
THIS SWITCH IS BUILT IN THE PHONO JACK CONNECTOR. WHEN THE PHONO JACK CONNECTS, THIS SWITCH ENTERS A CAMERA SIDE AUTOMATICALLY.
TUNER
CAMERA
Q3004
AMP
VIDEO OUT
VIDEO SIGNAL
4.43MHz
VR3004
REG 5V
PICTURE VR
EDIT SW
OFF
ON
EDIT LNC
LOGIC
EE-VV DETAIL
FROM AUDIO & SYSTEM CTL
EE Ⓗ
TO SYSTEM CTL
AV Ⓛ
IC3801 (M5202AP)
VIDEO IN
TUNER
CAMERA
DBS SW
ON
OFF
VIDEO IN
VIDEO OUT
21PIN JACK
INPUT/OUTPUT PACK C.B.A. (VEP03494A:NV-G45EG)
SYNC Ⓛ
TO TIMER
IC3002 (AN5421N)
VOLTAGE COMP
GATE
SYNC SEPA
VR3020
+12V
MUTING FREQ.
FROM SERVO
ROTARY SW
FL801
5.06MHz B.P.F.
VR803
PB CHROMA
1.6MHz L.P.F.
IC801 (VEFH04A)
DL802
DELAY
COMB AMP
PB OUT AMP KILL SW
ACC DET
0.16Vp-p 5.06MHz
4.43MHz BPF
VIDEO IN
ACC
MAIN B.M
BURST UP
REC OUT AMP KILL SW
REC CHROMA
627KHz
627K 3.8M 4.8M Hz
PB AMP
RF CHROMA
L806 L809 L812 C815 C818 C819
627KHz L.P.F.
VCO (REC)
X'TAL OSC (P.B)
APC COMP
APC DET
BURST DET
BURST ADJ
SUB BM
5.02MHz VCO
1/8
1/321
AFC DET
AFC COMP
ROTARY
DIGITAL M.M
MMV
SECAM Ⓗ
C821
R818
X801
FL851
4.4MHz TRAP
IC851 (BA7025L)
SW
SECAM DET
E.REC Ⓗ
SECAM PACK C.B.A. (VEP03452B:NV-G45EG)
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03402J :NV-G45EG) (VEP03402K :NV-G45B)
FROM LUMINANCE
Hss IN
HSS IN
H. SW
REC.Y
RF.Y
L3007 C3012
627KHz TRAP
Q3006
FREQUENCY CONPENSATOR
C3010
C3011
L3006
VR3012
Q ADJ
TP3001 PLAY
RF SIGNAL 0.2Vp-p
TP3001
H. SW PULSE
5Vp-p 25Hz
3.8M 4.8MHz
P3001·P502
REC-C
VR502
IC501 (BA7254S)
VR501
REC-Y
H.P.F
MIX
1ST & 2ND AMP
HEAD SW
CHROMA AMP
ENVE SELECT

---- 5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE — — — 5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE


IC301 (VEFH03D)
L.P.F.
AMP
FL302
FM DEM
LIM
H.P.F
AGC
EE
VV
CLP
MUTE
FL301
LUMINANCE SIGNAL
4MHz
Q3004
VIDEO OUT
R312
R313
2MHz PEAK
C315
C316
1.7MHz PEAK
L304
L305
QR301
QR302
QR303
E-REC Ⓗ
LP Ⓗ
DOC PULSE GEN
ENV DET
HEAD AMP OUTPUT
RF SIGNAL 0.5Vp-p
MAIN EMPHASIS
DET
S-SEP
PULSE DELAY
NLE
MAIN EMPH
DEV
FM MOD
W/D CLIP
LIM
DETAIL N.L.E.
NL DE
CLAMP
MIX
PIC CONT
NC
NL EMPHASIS
FREQUENCY
SYNC TIP
WHITE LEVEL
FM MODURATION
VR3004
REG 5V
PICTURE VR
EDIT SW
OFF
ON
EDIT LNC
LOGIC
EE-VV DETAIL
IC303 (MSM6965-3RS)
1H DELAY
CLAMP
CCD
SCHMITT
X301
Q303
FL303
Y.BAL
VR302
DL801
2H DELAY
CHROMA PHASE
CHROMA BALANCE
VR801
VR802
IC302 (AN3494NK)
DL
-4.1
Nor
Do
-3dB
LNC
LP
4dB
22dB
LIM
-10dB
-7dB
-12dB
TP301
LNC LP
5V
VR301
Y LEVEL
GCA
-9.5dB
NR
EDIT
OFF
LOG
NOTE: LNC: LINE NOISE CANCELL
TP8019
REG 6V
Q3014 (E-REC Ⓗ: ON)
E-REC Ⓛ
FROM SYSTEM CTL
ENVE SELECT
TO SERVO
HEAD AMP SW
FROM SERVO
HEAD SW
FROM SERVO
FL801
5.06MHz B.P.F.
VR803
PB CHROMA
1.6MHz L.P.F.
IC801 (VEFH04A)
DL802
DELAY
COMB AMP
PB OUT AMP KILL SW
ACC DET
ACC
MAIN B.M
BURST UP
0.16Vp-p 5.06MHz
REC OUT AMP KILL SW
627KHz
4.43MHz BPF
VIDEO IN
PB AMP
REC CHROMA
RF CHROMA
L806 L809 L812 C815 C818 C819
627KHz L.P.F
VCO (REC)
X'TAL OSC (P.B)
APC COMP.
APC DET
BURST DET
BURST ADJ
5.02MHz VCO
1/8
1/321
AFC DET
AFC COMP.
SUB BM
ROTARY
DIGITAL M.M
MMV
SECAM Ⓗ
X801
C821
R818
E.REC Ⓗ
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03402J : NV-G45EG)
(VEP03402K : NV-G45B)
FROM LUMINANCE
Hss IN
HSS IN
H. SW
REC.Y
RF.Y
L3007 C3012
627KHz TRAP
3.8M 4.8MHz
Q3006
FREQUENCY CONPENSATOR
C3010
C3011
L3006
VR3012
Q ADJ
TP3001 PLAY
RF SIGNAL 0.2Vp-p
TP3001
H.SW PULSE
5Vp-p 25Hz
P3001-P502
REC.C
VR502
IC501 (BA7254S)
VR501
REC.Y
H.P.F
MIX
AMP
CURR AMP
P002
VIDEO HEAD L'
VIDEO HEAD R'
VIDEO HEAD R
VIDEO HEAD L
TP504
TP503
IC501 (BA7254S)
1ST & 2ND AMP
HEAD SW
H SW
AGC DET
CHROMA AMP
PEAKING AMP
AGC AMP
ENVE SELECT
HEAD AMP OUTPUT
RF SIGNAL 120mVp-p
PHASE COMPENSATOR
AMP
Q501
HEAD AMP PACK C.B.A. (VEP05120B)
R (35μm)
620±5μm
L' (49μm)
R' (49μm)
L (35μm)

Next Page:
POWER Section

3-4. POWER SCHEMATIC DIAGRAM


F
E
D
C
B
A
AC INLET
F1001
250VT1.6A
C1005
VCC0016
D1001
EN861D-05A
C1004
VCC0016
POWER INLET C.B.A.
(VEP01311B)
L1001
ELF18D221F:NV-G45EG
ELF18D290A:NV-G45B
R1001
330K(1/2W)
C1001
0.22
(250V)
(NV-G45EG) ONLY
C1001
0.068
(250V)
(NV-G45B) ONLY
C1002
0.1(250V):NV-G45EG
0.068(250V):NV-G45B
C1006
VCC0021
C1007
VCC0021
5.5Vp-p 8m sec
D1004
S1WBA60
R1013
(2W) 2.2
C1009
400V 82
C1008
VCC0021
R1002
82K(1W)
R1003
82K(2W)
R1005
56K
R1006
56K
R1004
0.39(2W)
C1003
100V 1
R1012
68K(3W)
C1011
0.047
D1014
VSD0002
D1015
AP01C
C1010
(2KV) 330P
Q1001
STRD1806E
(AUTO VOLTAGE SELECTOR)
0.1
78.4
0
-6.1
C1012
16V47
D1002
MA178
R1007
10
R1008
180(2W)
C1035
0.47
C1014
0.0047
WAVEFORMS OF Q1001 PINS
1
2
3
4
0.5Vp-p 10μsec
2Vp-p 9μsec
560Vp-p 10μsec
1.1Vp-p 10μsec
POWER C.B.A.
(VEP01310C:NV-G45EG)
(VEP01310D:NV-G45B)
T1001
VLT0515
P1
P2
F2
F1
S5
S1
S2
S6
S4
S3
S8
S7
D1007
ERA22-02
C1016
100P
D1008
RL4ZLF
C1017
20V680
D1012
MA2200B
(20V)
D1009
MA185
C1018
50V10
D1010
AK04
C1019
10V330
D1011
AK04
C1020
6V330
C1021
50V100
L1002
22u
D1017
SV03YS
C1022
20V680
R1014
15K
C1033
16V
100
C1023
0.01
C1024
0.01
C1025
0.01
QR1001
DTA143TV
15.6
15.5
(VOLTAGE CONTROL)
R1015
1K
R1016
1K
Q1003
2SD1273P
(VOLTAGE PROTECTOR)
43.9
D1013
MA4130L
(13V)
R1019
(1/2W) 1800
(MULTI VOLTAGE REGULATOR)
IC1
STK
15.5
0
13.8
21.8
8.5
6.1
5.4
0
C1013
10V47
C1029
10V100
C1026
50V10
R1018
5600
C1027
0.01
15.5
13.1
12.5
C1028
16V10
Q1
2SD
(VOL
TPGND1
TP1002
TP1003
P1101
REG 45V 13
NON SW 12V 12
POWER OFF 11
UNREG 14V 10
REG 12V 9
MOTOR GND 8
REG 6V 7
REG 5V 6
GND 5
GND 4
REG -29V 3
HEATER 2
HEATER 1
D1102
MA165
D1101
MA165
13.2
(POWER OFF (H):ON)
0
C1101
25V10
QR1101
UN2213
DTC144EK
FA1L4M
POWER SUPPLY SECTION IN MAIN C.B.A.
(VEP03493AT:NV-G45EG)
(VEP03493AG:NV-G45B)
1
2
3
4
5
6
7
8
9
10

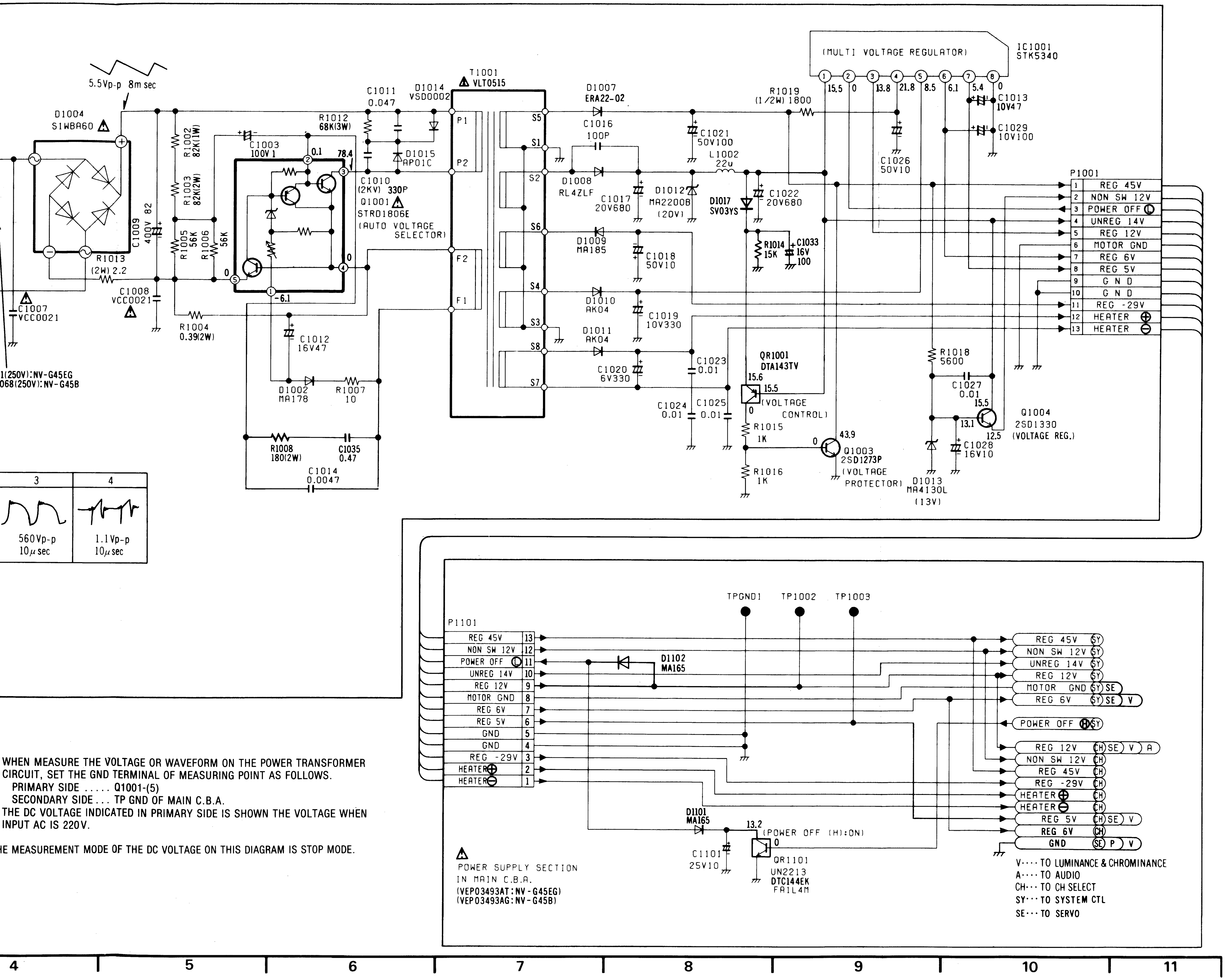
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE ..... Q1001-(5)
SECONDARY SIDE ... TP GND OF MAIN C.B.A.

NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

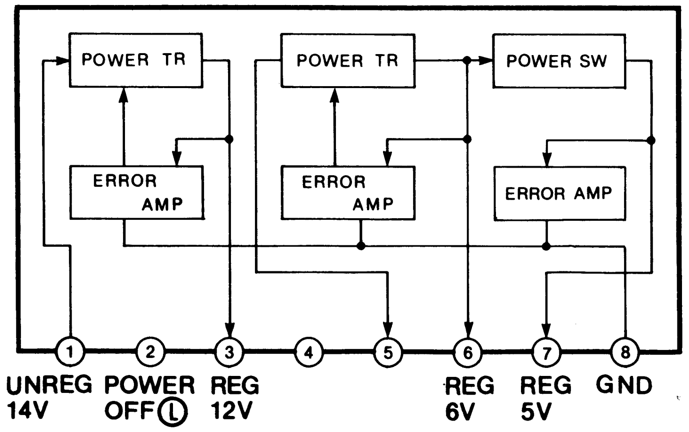
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.


5.5Vp-p 8m sec
D1004
S1WBA60 ⚠
C1009
400V 82
R1013
(2W) 2.2
C1008
VCC0021
C1007
VCC0021
R1002
82K(1W)
R1003
82K(2W)
R1005
56K
R1006
56K
R1004
0.39(2W)
C1003
100V 1
0.1
78.4
R1012
68K(3W)
-6.1
C1012
16V47
D1002
MA178
R1007
10
R1008
180(2W)
C1035
0.47
C1014
0.0047
C1011
0.047
D1014
VSD0002
D1015
AP01C
C1010
(2KV) 330P
Q1001 ⚠
STRD1806E
(AUTO VOLTAGE SELECTOR)
T1001
⚠ VLT0515
P1
P2
F2
F1
S5
S1
S2
S6
S4
S3
S8
S7
D1007
ERA22-02
C1016
100P
D1008
RL4ZLF
C1017
20V680
D1009
MA185
C1018
50V10
D1010
AK04
C1019
10V330
D1011
AK04
C1020
6V330
C1021
50V100
L1002
22u
D1012
MA2200B
(20V)
D1017
SV03YS
C1022
20V680
R1014
15K
C1033
16V
100
C1023
0.01
C1024
0.01
C1025
0.01
QR1001
DTA143TV
15.6
15.5
(VOLTAGE CONTROL)
R1015
1K
R1016
1K
Q1003
2SD1273P
(VOLTAGE PROTECTOR)
43.9
R1019
(1/2W) 1800
(MULTI VOLTAGE REGULATOR)
IC1001
STK5340
15.5
0
13.8
21.8
8.5
6.1
5.4
0
C1013
10V47
C1029
10V100
C1026
50V10
R1018
5600
C1027
0.01
15.5
13.1
12.5
Q1004
2SD1330
(VOLTAGE REG.)
C1028
16V10
D1013
MA4130L
(13V)
P1001
1 REG 45V
2 NON SW 12V
3 POWER OFF Ⓛ
4 UNREG 14V
5 REG 12V
6 MOTOR GND
7 REG 6V
8 REG 5V
9 G N D
10 G N D
11 REG -29V
12 HEATER ⊕
13 HEATER ⊖
1(250V):NV-G45EG
068(250V):NV-G45B
3
4
560Vp-p
10μsec
1.1Vp-p
10μsec
TPGND1
TP1002
TP1003
P1101
REG 45V 13
NON SW 12V 12
POWER OFF Ⓛ 11
UNREG 14V 10
REG 12V 9
MOTOR GND 8
REG 6V 7
REG 5V 6
GND 5
GND 4
REG -29V 3
HEATER⊕ 2
HEATER⊖ 1
D1102
MA165
D1101
MA165
13.2
(POWER OFF (H):ON)
C1101
25V10
QR1101
UN2213
DTC144EK
FA1L4M
REG 45V SY
NON SW 12V SY
UNREG 14V SY
REG 12V SY
MOTOR GND SY SE
REG 6V SY SE V
POWER OFF Ⓗ SY
REG 12V CH SE V A
NON SW 12V CH
REG 45V CH
REG -29V CH
HEATER⊕ CH
HEATER⊖ CH
REG 5V CH SE V
REG 6V CH
GND SE P V
V···· TO LUMINANCE & CHROMINANCE
A···· TO AUDIO
CH··· TO CH SELECT
SY··· TO SYSTEM CTL
SE··· TO SERVO
⚠
POWER SUPPLY SECTION
IN MAIN C.B.A.
(VEP03493AT:NV-G45EG)
(VEP03493AG:NV-G45B)
4
5
6
7
8
9
10
11

WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE ..... Q1001-(5)
SECONDARY SIDE ... TP GND OF MAIN C.B.A.
THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

HE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

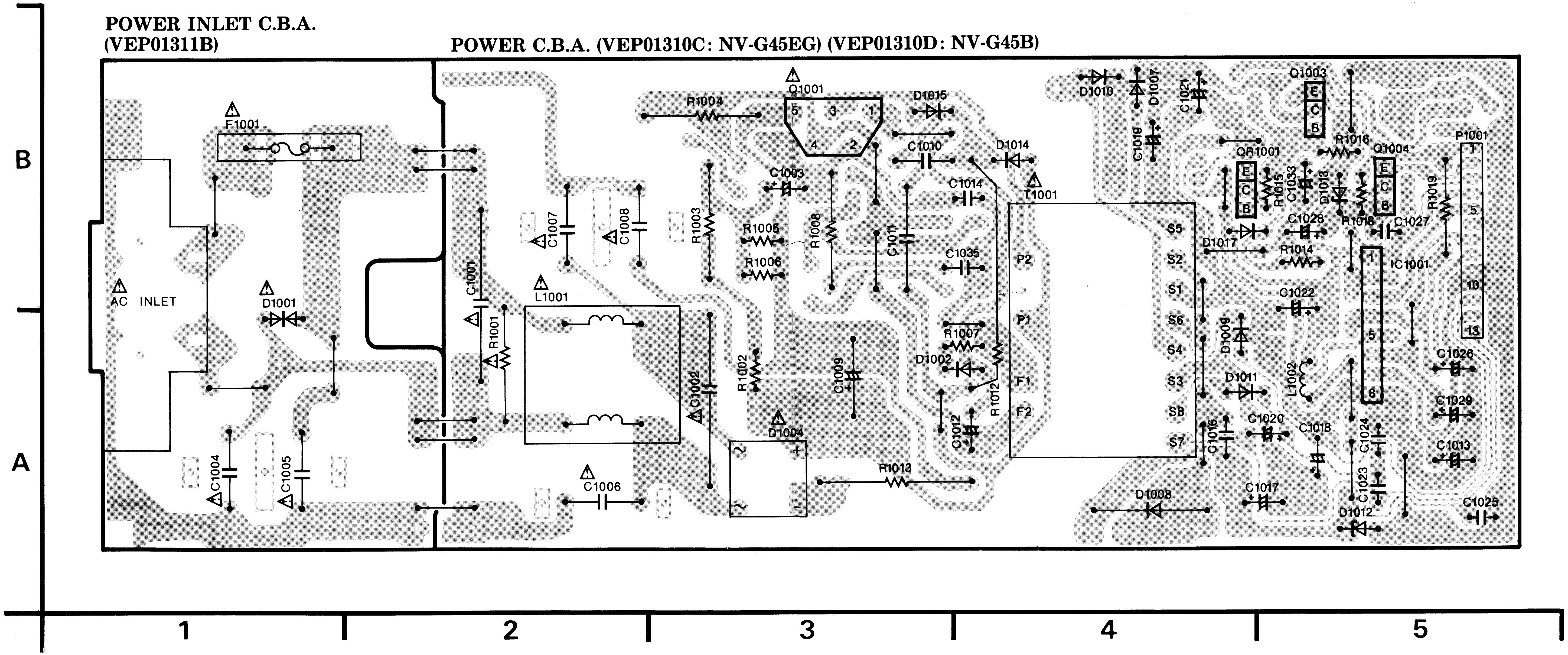
IC BLOCK
IC1001 (STK5340)


POWER TR
ERROR AMP
POWER TR
POWER SW
ERROR AMP
ERROR AMP
1
2
3
4
5
6
7
8
UNREG 14V
POWER OFF Ⓛ
REG 12V
REG 6V
REG 5V
GND

3-5. POWER C.B.A. (VEP01310C: NV-G45EG) (VEP01310D: NV-G45B)

POWER C.B.A.	
Transistor	
Q1001 Q1003 Q1004	B-3 B-5 B-5
Transistor & Resistor	
QR1001	B-5
Integrated Circuit	
IC1001	B-5
Connector	
P1001	B-5

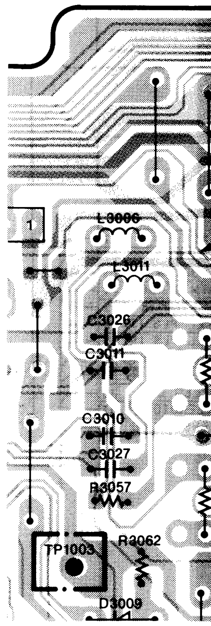
ADDRESS INFORMATION


POWER INLET C.B.A. (VEP01311B)

POWER C.B.A. (VEP01310C: NV-G45EG) (VEP01310D: NV-G45B)

B
A
1
2
3
4
5
AC INLET
F1001
D1001
C1004
C1005
C1001
R1001
C1007
C1008
L1001
C1006
C1002
R1003
R1004
R1005
R1006
R1002
Q1001
5
3
1
4
2
C1003
R1008
C1009
D1004
~
+
~
−
R1013
D1015
C1010
C1014
C1011
C1035
D1014
T1001
R1007
D1002
R1012
C1012
P2
P1
F1
F2
S5
S2
S1
S6
S4
S3
S8
S7
D1010
D1007
C1019
C1021
D1008
Q1003
E
C
B
QR1001
E
C
B
R1015
C1033
D1013
R1016
Q1004
E
C
B
C1028
R1018
C1027
D1017
R1014
C1022
IC1001
1
5
8
D1009
D1011
L1002
C1016
C1020
C1018
C1024
C1017
C1023
D1012
R1019
P1001
1
5
10
13
C1026
C1029
C1013
C1025

3-6. POWE
(VEP03

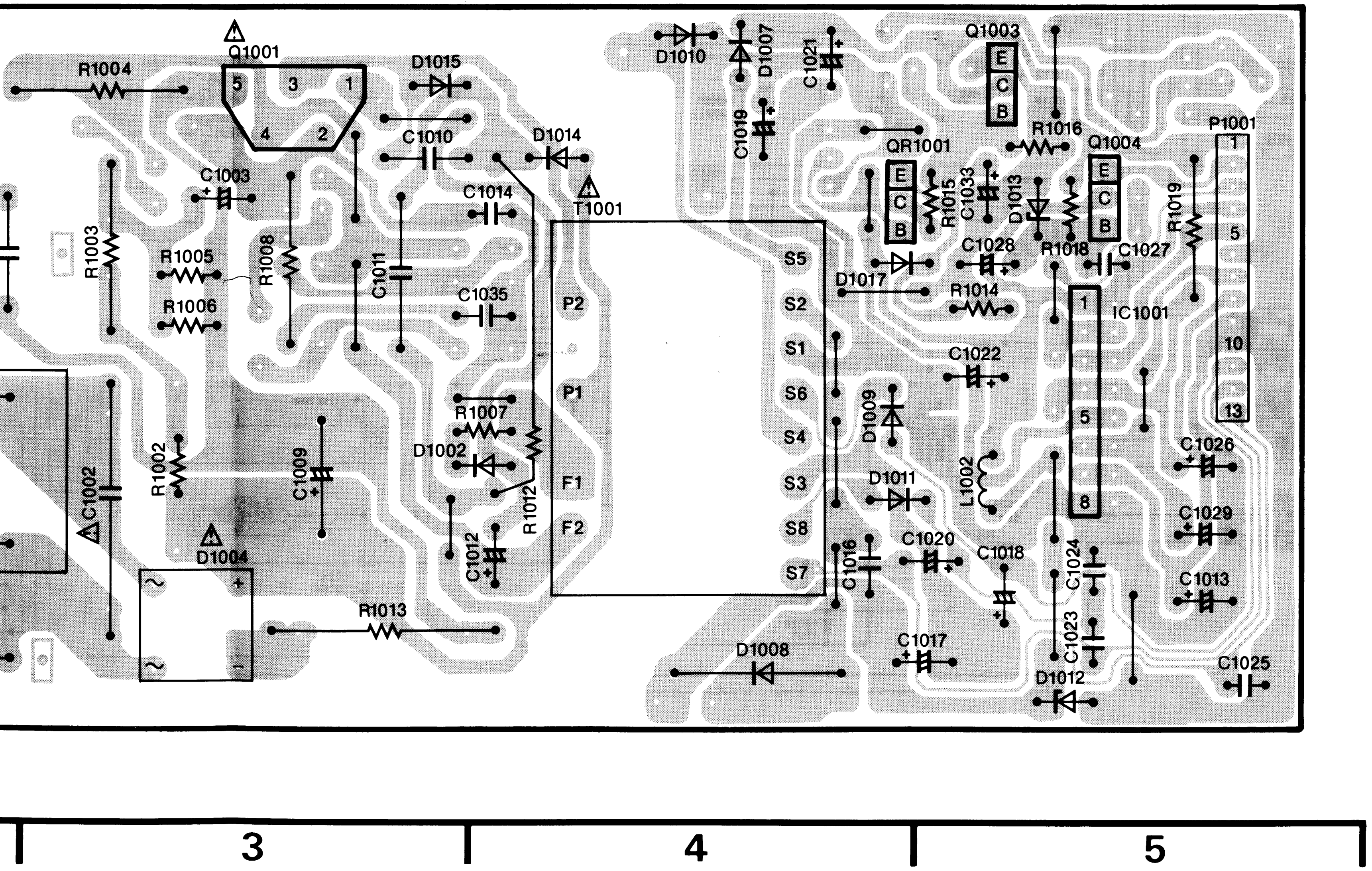

L3006
L3011
C3026
C3011
C3010
C3027
R3057
TP1003
R3062
D3009

G45B)

POWER C.B.A.	
Transistor	
Q1001 Q1003 Q1004	B-3 B-5 B-5
Transistor & Resistor	
QR1001	B-5
Integrated Circuit	
IC1001	B-5
Connector	
P1001	B-5

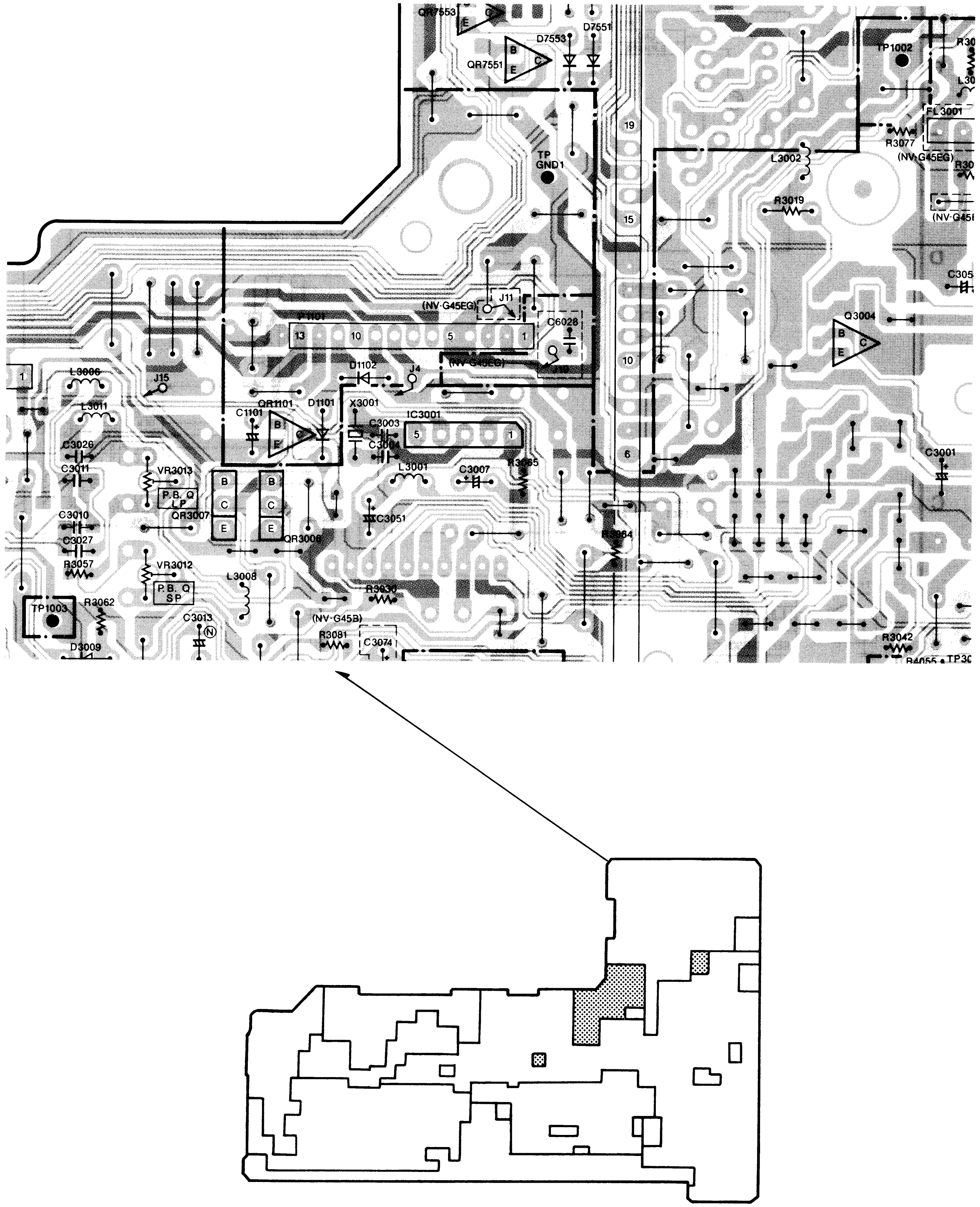
ADDRESS INFORMATION

P01310C: NV-G45EG) (VEP01310D: NV-G45B)



Q1001
R1004
D1015
C1010
D1014
T1001
C1003
C1014
R1003
R1005
R1006
R1008
C1011
C1035
P2
P1
F1
F2
S5
S2
S1
S6
S4
S3
S8
S7
R1007
D1002
R1012
R1002
C1009
C1002
C1012
D1004
R1013
D1010
D1007
C1021
C1019
Q1003
E
C
B
QR1001
R1016
Q1004
R1015
C1033
D1013
R1019
P1001
1
5
10
13
D1017
C1028
R1018
C1027
R1014
IC1001
8
C1022
D1009
D1011
L1002
C1026
C1029
C1016
C1020
C1018
C1024
C1013
C1023
C1017
D1008
D1012
C1025
3
4
5

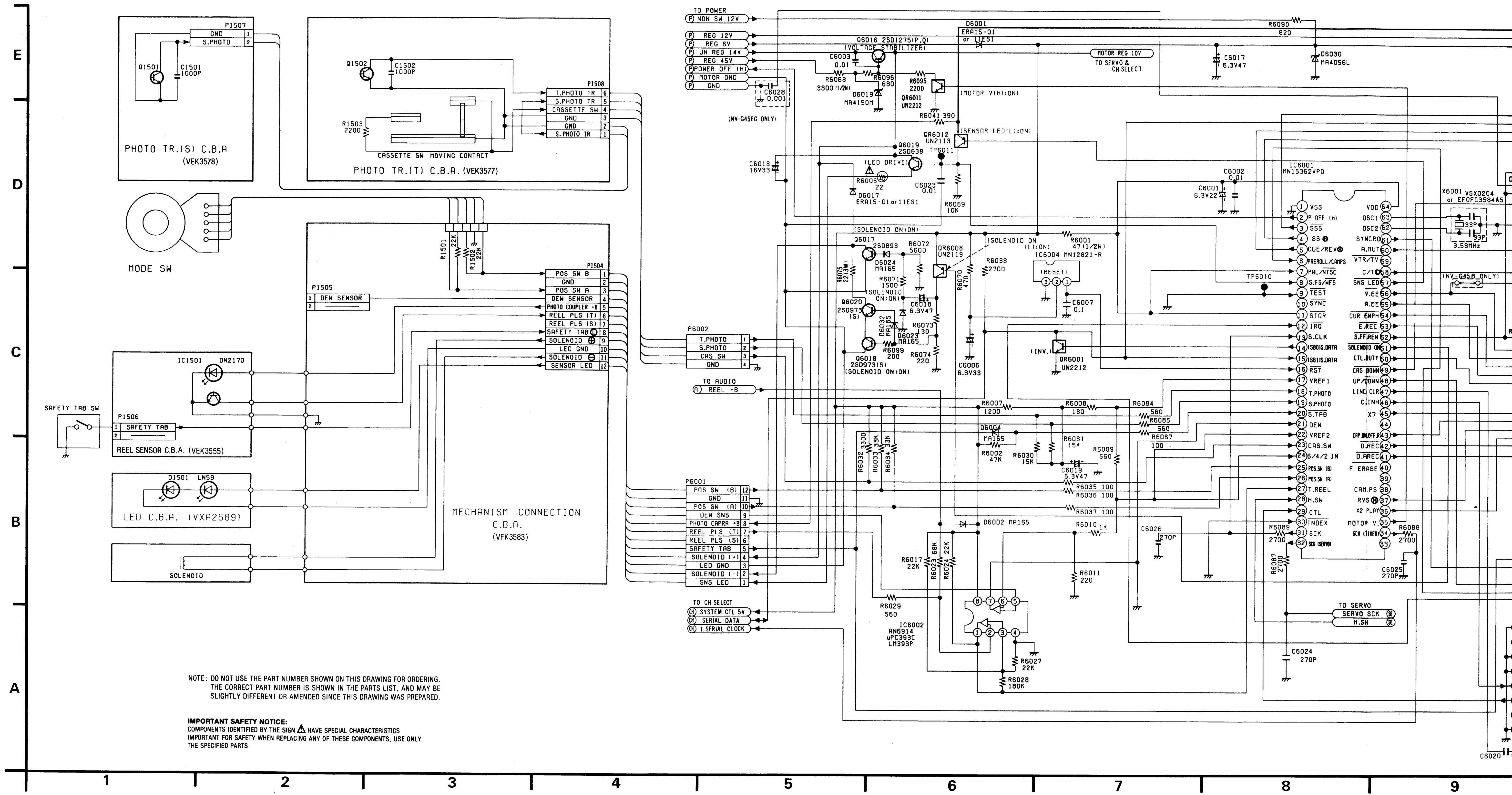
3-6. POWER SUPPLY Section In Main C.B.A. (VEP03493AT: NV-G45EG) (VEP03493AG: NV-G45B)



QR7553
D7553
D7551
QR7551
TP1002
FL3001
R3077
(NV-G45EG)
L3002
R3019
TP GND1
19
15
10
6
(NV-G45EG)
J11
C6028
P1101
13
10
5
1
Q3004
C305
L3006
J15
D1102
J4
L3011
QR1101
D1101
X3001
C1101
C3003
C3004
IC3001
C3026
C3011
VR3013
P.B. Q LP
QR3007
L3001
C3007
R3065
C3001
C3010
C3027
QR3006
C3051
R3064
R3057
VR3012
P.B. Q SP
L3008
R3030
TP1003
R3062
C3013
(NV-G45B)
R3081
C3074
D3009
R3042
R4055
TP30

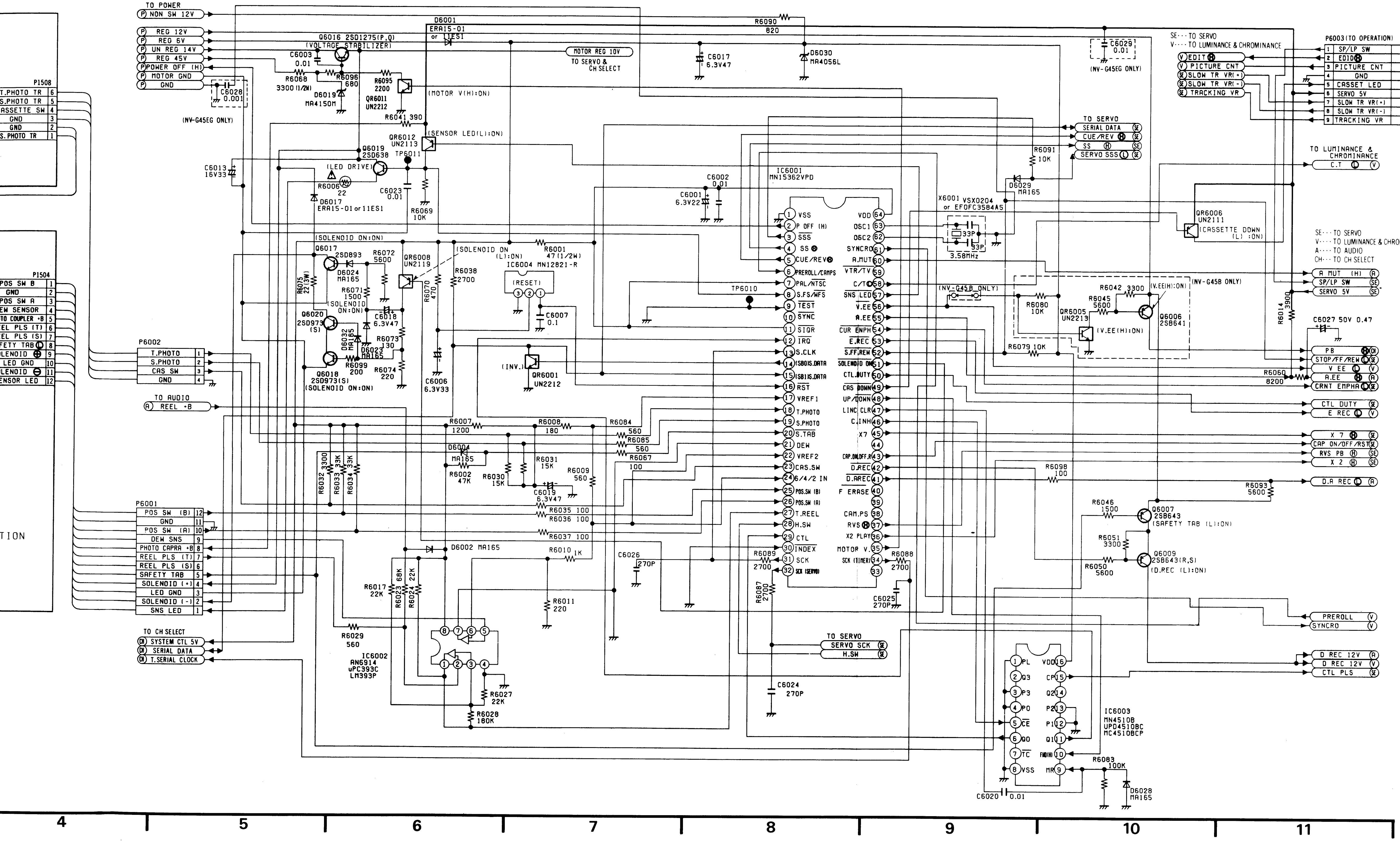
Next Page:
SYSTEM CONTROL Section

3-7. SYSTEM CONTROL SCHEMATIC DIAGRAM

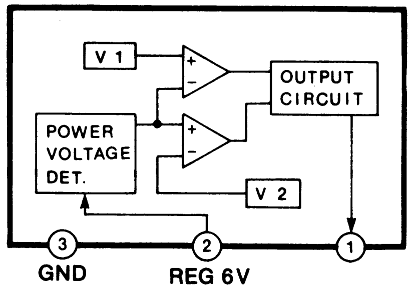

E
D
C
B
A
1
2
3
4
5
6
7
8
9
P1507
GND
S.PHOTO
Q1501
C1501
1000P
PHOTO TR.(S) C.B.A
(VEK3578)
Q1502
C1502
1000P
R1503
2200
CASSETTE SW MOVING CONTACT
PHOTO TR.(T) C.B.A. (VEK3577)
P1508
T.PHOTO TR
S.PHOTO TR
CASSETTE SW
GND
GND
S.PHOTO TR
MODE SW
R1501 22K
R1502 22K
P1505
DEW SENSOR
P1504
POS SW B
GND
POS SW A
DEW SENSOR
PHOTO COUPLER +B
REEL PLS (T)
REEL PLS (S)
SAFETY TAB
SOLENOID ⊕
LED GND
SOLENOID ⊖
SENSOR LED
IC1501
ON2170
SAFETY TAB SW
P1506
SAFETY TAB
REEL SENSOR C.B.A. (VEK3555)
D1501
LN59
LED C.B.A. (VXA2689)
SOLENOID
MECHANISM CONNECTION C.B.A.
(VFK3583)
TO POWER
NON SW 12V
REG 12V
REG 6V
UN REG 14V
REG 45V
POWER OFF (H)
MOTOR GND
GND
C6028 0.001
(NV-G45EG ONLY)
Q6016 2SD1275(P,Q)
(VOLTAGE STABILIZER)
C6003 0.01
R6068 3300(1/2W)
R6096 680
D6019 MA4150M
R6095 2200
QR6011 UN2212
(MOTOR V(H):ON)
R6041 390
QR6012 UN2113
(SENSOR LED(L):ON)
Q6019 2SD638
TP6011
(LED DRIVE)
R6006 22
D6017 ERA15-01 or 11ES1
C6023 0.01
R6069 10K
C6013 16V33
D6001 ERA15-01 or 11ES1
MOTOR REG 10V
TO SERVO & CH SELECT
C6017 6.3V47
R6090 820
D6030 MA4056L
C6002 0.01
C6001 6.3V22
IC6001 MN15362VPD
X6001 VSX0204 or EF0FC3584A5
33P
33P
3.58MHz
(NV-G45B ONLY)
(SOLENOID ON:ON)
Q6017 2SD893
R6072 5600
QR6008 UN2119
(SOLENOID ON (L):ON)
R6001 47(1/2W)
IC6004 MN12821-R
(RESET)
R6038 2700
R6075 22(3W)
D6024 MA165
R6071 1500
(SOLENOID ON:ON)
C6018 6.3V47
Q6020 2SD973(S)
R6070 470
C6007 0.1
TP6010
R6073 130
D6032 MA165
D6023 MA165
R6099 200
R6074 220
Q6018 2SD973(S)
(SOLENOID ON:ON)
C6006 6.3V33
(INV.)
QR6001 UN2212
P6002
T.PHOTO
S.PHOTO
CAS SW
GND
TO AUDIO
REEL +B
R6007 1200
R6008 180
R6084 560
R6085 560
R6067 100
D6004 MA165
R6002 47K
R6030 15K
R6031 15K
C6019 6.3V47
R6009 560
R6032 3300
R6033 33K
R6034 33K
R6035 100
R6036 100
R6037 100
P6001
POS SW (B)
GND
POS SW (A)
DEW SNS
PHOTO CAPRA +B
REEL PLS (T)
REEL PLS (S)
SAFETY TAB
SOLENOID (+)
LED GND
SOLENOID (-)
SNS LED
D6002 MA165
R6010 1K
C6026 270P
R6017 22K
R6023 68K
R6024 22K
R6011 220
R6029 560
IC6002 AN6914 uPC393C LM393P
R6027 22K
R6028 180K
TO CH SELECT
SYSTEM CTL 5V
SERIAL DATA
T.SERIAL CLOCK
R6089 2700
R6087 2700
R6088 2700
C6025 270P
C6024 270P
TO SERVO
SERVO SCK
H.SW
C6020
VSS
P OFF (H)
SSS
SS
CUE/REV
PREROLL/CAMPS
PAL/NTSC
S.FS/MFS
TEST
SYNC
SIGR
IRQ
S.CLK
ISBDIS.DATA
ISBDIS.DATA
RST
VREF1
T.PHOTO
S.PHOTO
S.TAB
DEW
VREF2
CAS.SW
6/4/2 IN
POS.SW (B)
POS.SW (A)
T.REEL
H.SW
CTL
INDEX
SCK
SCK (SERVO)
VDD
OSC1
OSC2
A.MUTE
VTR/TV
SNS LED
V.EE
A.EE
CUR ENPH
E.REC
S.FF/REW
SOLENOID ON
CTL DUTY
CAS DOWN
UP/DOWN
LINC CLR
C.INH
X7
CRP.ON.OFF.R
D.REC
D.AREC
F ERASE
CAM.PS
RVS
X2 PLAY
MOTOR V.
SCK (TIMER)
SYNCRO
C/TC

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.


TO POWER
NON SW 12V
REG 12V
REG 6V
UN REG 14V
REG 45V
POWER OFF (H)
MOTOR GND
GND
C6028 0.001
(NV-G45EG ONLY)
P1508
T.PHOTO TR
S.PHOTO TR
CASSETTE SW
GND
GND
S.PHOTO TR
D6001 ERA15-01 or 11ES1
Q6016 2SD1275(P,Q) (VOLTAGE STABILIZER)
C6003 0.01
R6068 3300 (1/2W)
R6096 680
D6019 MA4150M
R6095 2200
QR6011 UN2212
(MOTOR V(H):ON)
MOTOR REG 10V
TO SERVO & CH SELECT
R6041 390
QR6012 UN2113
(SENSOR LED(L):ON)
Q6019 2SD638
TP6011
(LED DRIVE)
R6006 22
D6017 ERA15-01 or 11ES1
C6023 0.01
R6069 10K
C6013 16V33
R6090 820
C6017 6.3V47
D6030 MA4056L
C6029 0.01
(NV-G45EG ONLY)
C6002 0.01
C6001 6.3V22
IC6001 MN15362VPD
X6001 VSX0204 or EFOFC3584A5
33P
33P
3.58MHz
R6091 10K
D6029 MA165
TO SERVO
SERIAL DATA
CUE/REV
SS
SERVO SSS
SE···TO SERVO
V····TO LUMINANCE & CHROMINANCE
EDIT
PICTURE CNT
SLOW TR VR(+)
SLOW TR VR(-)
TRACKING VR
P6003 (TO OPERATION)
SP/LP SW
EDIT
PICTURE CNT
GND
CASSET LED
SERVO 5V
SLOW TR VR(+)
SLOW TR VR(-)
TRACKING VR
P6202-1
P6202-2
P6202-3
P6202-4
P6202-5
P6202-6
P6202-7
P6202-8
P6202-9
TO LUMINANCE & CHROMINANCE
C.T
QR6006 UN2111 (CASSETTE DOWN (L):ON)
SE··· TO SERVO
V···· TO LUMINANCE & CHROMI
A···· TO AUDIO
CH··· TO CH SELECT
A MUT (H)
SP/LP SW
SERVO 5V
C6027 50V 0.47
R6014 3900
PB
STOP/FF/REW
V EE
A.EE
CRNT EMPHA
R6060 8200
CTL DUTY
E REC
X 7
CAP ON/OFF/RST
RVS PB
X 2
D.A REC
R6093 5600
P1504
POS SW B
GND
POS SW A
DEW SENSOR
TO COUPLER +B
REEL PLS (T)
REEL PLS (S)
SAFETY TAB
SOLENOID
LED GND
SOLENOID
SENSOR LED
(SOLENOID ON:ON)
Q6017 2SD893
D6024 MA165
R6072 5600
QR6008 UN2119
R6075 22(3W)
R6071 1500
(SOLENOID ON:ON)
C6018 6.3V47
Q6020 2SD973(S)
D6032 MA165
D6023 MA165
R6073 130
R6099 200
R6074 220
Q6018 2SD973(S) (SOLENOID ON:ON)
R6070 470
C6006 6.3V33
(SOLENOID ON (L):ON)
R6038 2700
R6001 47 (1/2W)
IC6004 MN12821-R
(RESET)
C6007 0.1
(INV.)
QR6001 UN2212
TP6010
P6002
T.PHOTO
S.PHOTO
CAS SW
GND
TO AUDIO
REEL +B
VSS
P OFF (H)
SSS
SS
CUE/REV
PREROLL/CAMPS
PAL/NTSC
S.FS/MFS
TEST
SYNC
STOR
IRQ
S.CLK
ISBOIS.DATA
ISBIIS.DATA
RST
VREF1
T.PHOTO
S.PHOTO
S.TAB
DEW
VREF2
CAS.SW
6/4/2 IN
POS.SW (B)
POS.SW (A)
T.REEL
H.SW
CTL
INDEX
SCK
SCK (SERVO)
VDD
OSC1
OSC2
SYNCRO
A.MUT
VTR/TV
C/T
SNS LED
V.EE
A.EE
CUR ENPH
E.REC
S.FF.REW
SOLENOID ON
CTL.DUTY
CAS DOWN
UP/DOWN
LINC CLR
C.INH
X7
CAP.ON.OFF.R
D.REC
D.AREC
F ERASE
CAM.PS
RVS
X2 PLAY
MOTOP V.
SCK (TIMER)
(NV-G45B ONLY)
R6080 10K
R6042 3300
(V.EE(H):ON)
R6045 5600
QR6005 UN2213
(V.EE(H):ON)
Q6006 2SB641
(NV-G45B ONLY)
R6079 10K
R6007 1200
R6008 180
R6084 560
R6085 560
R6067 100
D6004 MA165
R6031 15K
R6009 560
R6002 47K
R6030 15K
C6019 6.3V47
R6032 3300
R6033 33K
R6034 33K
R6035 100
R6036 100
R6037 100
R6098 100
R6046 1500
Q6007 2SB643 (SAFETY TAB (L):ON)
R6051 3300
R6050 5600
Q6009 2SB643(R,S) (D.REC (L):ON)
P6001
POS SW (B)
GND
POS SW (A)
DEW SNS
PHOTO CAPRA +B
REEL PLS (T)
REEL PLS (S)
SAFETY TAB
SOLENOID (+)
LED GND
SOLENOID (-)
SNS LED
TION
D6002 MA165
R6010 1K
R6011 220
C6026 270P
R6089 2700
R6087 2700
R6088 2700
C6025 270P
R6017 22K
R6023 68K
R6024 22K
R6029 560
IC6002 AN6914 uPC393C LM393P
R6027 22K
R6028 180K
TO CH SELECT
SYSTEM CTL 5V
SERIAL DATA
T.SERIAL CLOCK
TO SERVO
SERVO SCK
H.SW
C6024 270P
PREROLL
SYNCRO
D REC 12V
D REC 12V
CTL PLS
IC6003 MN4510B UPD4510BC MC4510BCP
PL
Q3
P3
PO
CE
QO
TC
VSS
VDD
CP
Q2
P2
P1
Q1
MR
R6083 100K
D6028 MA165
C6020 0.01
4
5
6
7
8
9
10
11

IC BLOCK
IC6004 (MN12821R)


V 1
OUTPUT CIRCUIT
POWER VOLTAGE DET.
V 2
3
GND
2
REG 6V
1

SYSTEM CONTROL ICs VOLTAGE CHART (SP MODE)

REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	0	0	0	5.1	0.7	5.1	3.9	5.1	0	4.7	0.4	4.9	5.1	2.9	3.2	3.2	0.5
PLAY	0	0	5.3	0	0	0	5.3	0.7	5.3	3.9	5.3	2.2	4.9	0.4	5.0	5.2	3.0	3.3	3.3	0.5
REC	0	0	5.2	0	0	0	5.2	0.7	5.2	3.9	5.2	2.0	4.8	0.3	4.9	5.2	3.0	3.3	3.3	0.5
F.F	0	0	5.0	0	0	0	5.1	0.7	5.1	3.8	5.1	2.1	4.7	0.3	4.9	5.1	2.9	3.2	3.2	0.5
REW	0	0	5.1	0	0	0	5.1	0.7	5.1	3.8	5.1	2.1	4.7	0.3	4.9	5.1	2.9	3.2	3.2	0.5

REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	2.0	2.2	0	2.1	5.2	0	0	0	0	4.7	5.1	4.9	4.7	0	0	0	5.1	0.4	0.4
PLAY	0	2.1	2.2	0	5.4	0	2.4	2.5	2.7	0	4.8	5.2	5.1	4.9	5.2	0	0	5.3	0.3	0.3
REC	0	2.0	2.2	0	5.3	0	2.8	2.5	2.7	0	4.7	5.1	5.0	4.7	5.1	0.1	0.1	5.2	0.1	0.1
F.F	0	2.0	2.1	0	2.1	5.2	2.6	0	2.6	0	4.7	5.1	4.9	4.7	0	0	0	5.1	0.3	0.3
REW	0	2.0	2.1	0	2.1	5.2	2.6	0	2.6	0	4.7	5.1	4.9	4.7	0	0	0	5.1	0.3	0.3

REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	9.9	12.2	1.7	0	0.1	5.1	5.1	5.1	0.1	5.1	5.2	0.1	0.3	0.1	5.0	0.1	4.4	0.1	0	0
PLAY	10.0	12.2	5.2	0	0.1	0	0	5.3	0.1	5.3	5.4	4.6	0.3	4.7	0.1	5.3	4.4	0.1	5.3	0
REC	0.3	0.3	5.2	0.1	0.1	0.1	5.2	5.2	0.2	5.2	5.3	4.5	5.1	4.8	5.1	0.1	4.4	0.1	0	0
F.F	9.9	12.2	5.1	0	0.1	0	5.1	5.1	0.1	5.1	5.3	0.1	0.3	0.1	5.0	0.1	4.3	0.1	0	0
REW	9.9	12.2	5.1	0	0.1	0	5.1	0	0.1	5.1	5.2	0.1	0.3	0.1	5.0	0.1	4.3	0.1	0	0

REF. NO.	IC6001										IC6002									
MODE	61	62	63	64							1	2	3	4	5	6	7	8		
STOP	5.1	1.7	2.3	5.1							0	5.1	2.5	0	0.4	0.4	0	5.3		
PLAY	5.2	1.7	2.3	5.3							2.6	2.6	2.7	0	0.4	0.4	0	5.4		
REC	5.2	1.7	2.3	5.2							2.6	2.6	2.6	0	0.4	0.4	0	5.3		
F.F	5.1	1.7	2.3	5.1							2.6	2.8	2.6	0	0.4	0.4	0	5.3		
REW	5.1	1.7	2.3	5.1							2.5	2.8	2.6	0	0.4	0.4	0	5.3		

REF. NO.	IC6003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	0	0	0	5.1	0	5.3	0	0	5.1	0	0	0	0	1.1	5.3				
PLAY	0	1.0	0	0	0	2.7	4.7	0	0	5.3	2.0	0	0	2.0	0.4	5.4				
REC	0	1.0	0	0	0.1	2.7	4.7	0	0	5.2	2.0	0	0	2.0	3.1	5.3				
F.F	0	1.1	0	0	0	2.6	4.7	0	0	5.1	2.1	0	0	2.1	1.3	5.3				
REW	0	1.1	0	0	0	2.6	4.7	0	0	0	2.1	0	0	2.1	0.9	5.3				

REF. NO.	IC6004																			
MODE	1	2	3																	
STOP	5.1	0.1	0																	
PLAY	5.2	0.1	0																	
REC	5.2	0.1	0																	
F.F	5.1	0.1	0																	
REW	5.1	0.1	0																	

SYSTEM CONTROL TRANSISTORs VOLTAGE CHART (SP MODE)

REF. NO.	Q6007			Q6009			Q6016			Q6017			Q6018			Q6019		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	12.2	12.2	11.5	12.2	−0.1	12.2	14.4	15.9	15.6	0	14.4	0.2	0	0.3	0	0.8	14.4	0.7
PLAY	12.2	12.2	11.5	12.2	−0.1	12.2	10.6	15.7	11.8	0	10.6	0.2	0	0.3	0	0.8	10.6	0.7
REC	12.2	12.1	11.4	12.1	11.9	11.3	10.7	15.7	11.8	0	10.6	0.2	0	0.3	0	0.8	10.6	0.7
F.F	12.2	12.2	11.5	12.2	−0.1	12.2	14.4	15.8	15.6	0	14.4	0.2	0	0.3	0	0.8	14.4	0.7
REW	12.2	12.2	11.5	12.2	−0.1	12.2	14.4	15.8	15.6	0	14.4	0.2	0	0.3	0	0.8	14.4	0.7

REF. NO.	Q6020																	
MODE	E	C	B															
STOP	0.3	14.4	0.4															
PLAY	0.3	10.6	0.4															
REC	0.3	10.6	0.4															
F.F	0.3	14.4	0.4															
REW	0.3	14.4	0.4															

REF. NO.	QR6001			QR6006			QR6008			QR6011			QR6012					
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B			
STOP	0	4.9	0.4	5.0	4.9	0.1	5.3	0	5.3	0	15.6	0	5.0	0.7	4.4			
PLAY	0	5.0	0.4	5.0	4.9	0.1	5.4	0	5.4	0	0.1	5.2	5.0	0.7	4.4			
REC	0	5.0	0.3	5.1	5.0	0.2	5.3	0	5.3	0	0.1	5.1	5.1	0.7	4.4			
F.F	0	5.0	0.3	5.0	4.9	0.1	5.3	0	5.3	0	15.6	0	5.0	0.7	4.3			
REW	0	4.9	0.3	5.0	4.9	0	5.3	0	5.3	0	15.6	0	5.0	0.7	4.3			

SYSTEM CONTROL ICs VOLTAGE CHART (LP MODE)

REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	0	0	0	5.1	0.7	5.1	3.9	5.1	0	4.7	0.4	4.9	5.1	2.9	3.2	3.2	0.5
PLAY	0	0	5.3	0	0	0	5.3	0.7	5.3	3.9	5.3	2.2	4.9	0.4	5.0	5.2	3.0	3.3	3.3	0.5
REC	0	0	5.2	0	0	0	5.2	0.7	5.2	3.9	5.2	2.0	4.8	0.3	4.9	5.2	3.0	3.3	3.3	0.5
F.F	0	0	5.0	0	0	0	5.1	0.7	5.1	3.8	5.1	2.1	4.7	0.3	4.9	5.1	2.9	3.2	3.2	0.5
REW	0	0	5.1	0	0	0	5.1	0.7	5.1	3.8	5.1	2.1	4.7	0.3	4.9	5.1	2.9	3.2	3.2	0.5

REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	2.0	2.2	5.0	2.1	5.2	0	0	0	0	4.7	5.1	4.9	4.7	0	0	0	5.1	0.4	0.4
PLAY	0	2.1	2.2	5.0	5.4	0	2.4	2.5	2.7	0	4.8	5.2	5.1	4.9	5.2	0	0	5.3	0.3	0.3
REC	0	2.0	2.2	5.0	5.3	0	2.4	2.5	2.7	0	4.7	5.1	5.0	4.7	5.1	0.1	0.1	5.2	0.1	0.1
F.F	0	2.0	2.1	5.0	2.1	5.2	2.6	0	2.6	0	4.7	5.1	4.9	4.7	0	0	0	5.1	0.3	0.3
REW	0	2.0	2.1	5.0	2.1	5.2	2.6	0	2.6	0	4.7	5.1	4.9	4.7	0	0	0	5.1	0.3	0.3

REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	9.9	12.2	1.7	0	0.1	5.1	5.1	5.1	0.1	5.1	5.2	0.1	0.3	0.1	5.0	0.1	4.4	0.1	0	0
PLAY	10.0	12.2	5.2	0	0.1	0	5.3	5.3	0.1	5.3	5.4	4.6	0.3	4.7	0.1	5.3	4.4	0.1	5.3	0
REC	0.3	0.3	5.2	0.1	0.1	0.1	5.2	5.2	0.2	5.2	5.3	4.8	5.1	4.8	5.1	0.1	4.8	0.1	0	0
F.F	9.9	12.2	5.1	0	0.1	0	5.1	5.1	0.1	5.1	5.3	0.1	0.3	0.1	5.0	0.1	4.3	0.1	0	0
REW	9.9	12.2	5.1	0	0.1	0	5.1	0	0.1	5.1	5.2	0.1	0.3	0.1	5.0	0.1	4.3	0.1	0	0

REF. NO.	IC6001										IC6002									
MODE	61	62	63	64							1	2	3	4	5	6	7	8		
STOP	5.1	1.7	2.3	5.1							0	5.1	2.5	0	0.4	0.4	0	5.3		
PLAY	5.2	1.7	2.3	5.3							2.6	2.6	2.7	0	0.4	0.4	0	5.4		
REC	5.2	1.7	2.3	5.2							2.6	2.6	2.6	0	0.4	0.4	0	5.3		
F.F	5.1	1.7	2.3	5.1							2.6	2.8	2.6	0	0.4	0.4	0	5.3		
REW	5.1	1.7	2.3	5.1							2.5	2.8	2.6	0	0.4	0.4	0	5.3		

REF. NO.	IC6003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	0	0	0	5.1	0	5.3	0	0	5.1	0	0	0	0	1.1	5.3				
PLAY	0	1.0	0	0	0	2.7	4.7	0	0	5.3	2.2	0	0	2.0	0.4	5.4				
REC	0	1.0	0	0	0.1	2.7	4.7	0	0	5.2	2.2	0	0	2.0	3.1	5.3				
F.F	0	1.1	0	0	0	2.6	4.7	0	0	5.1	2.1	0	0	2.1	1.3	5.3				
REW	0	1.1	0	0	0	2.6	4.7	0	0	0	2.1	0	0	2.1	0.9	5.3				

REF. NO.	IC6004																			
MODE	1	2	3																	
STOP	5.1	0.1	0																	
PLAY	5.2	0.1	0																	
REC	5.2	0.1	0																	
F.F	5.1	0.1	0																	
REW	5.1	0.1	0																	

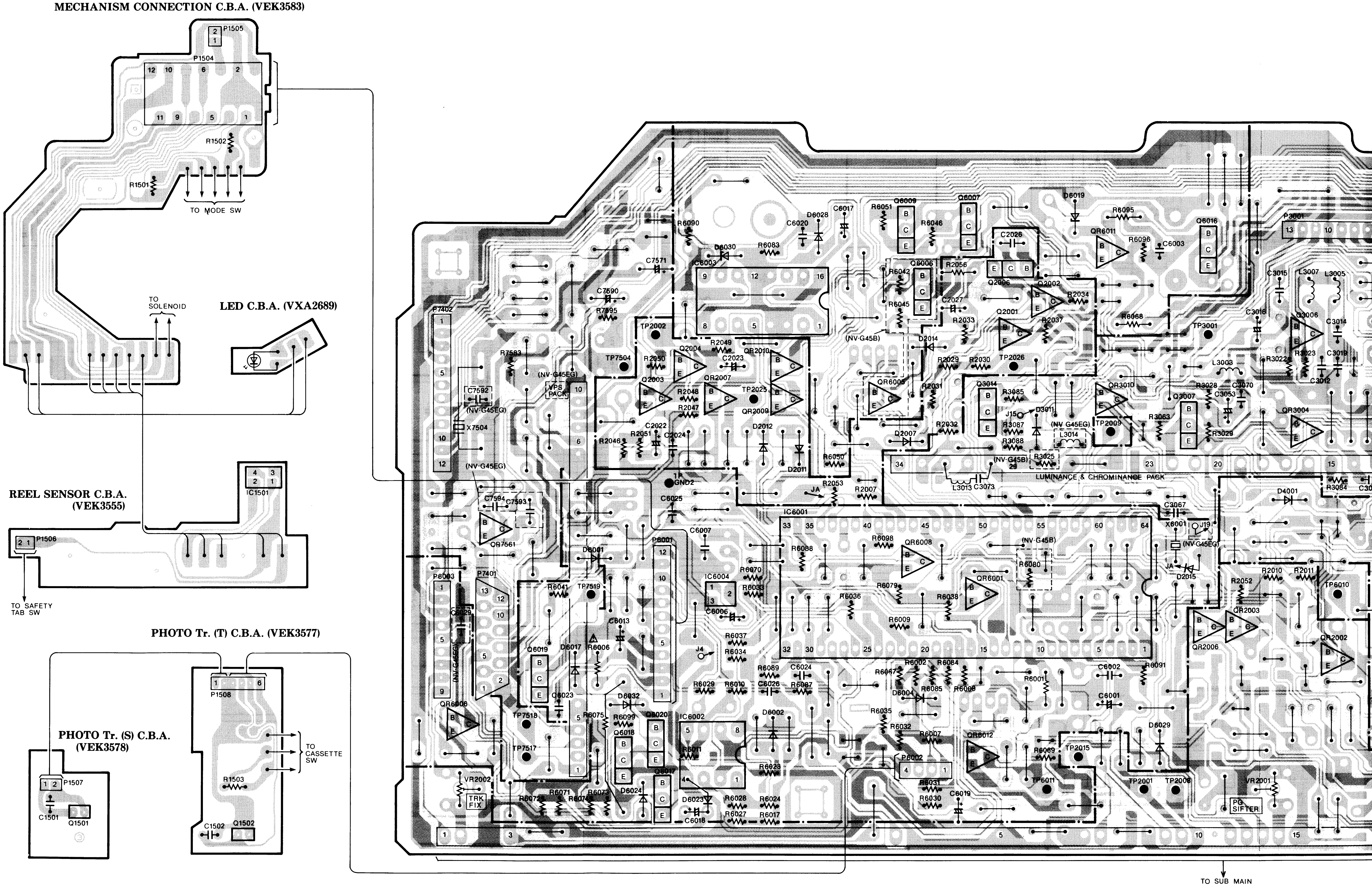
SYSTEM CONTROL TRANSISTORs VOLTAGE CHART (LP MODE)

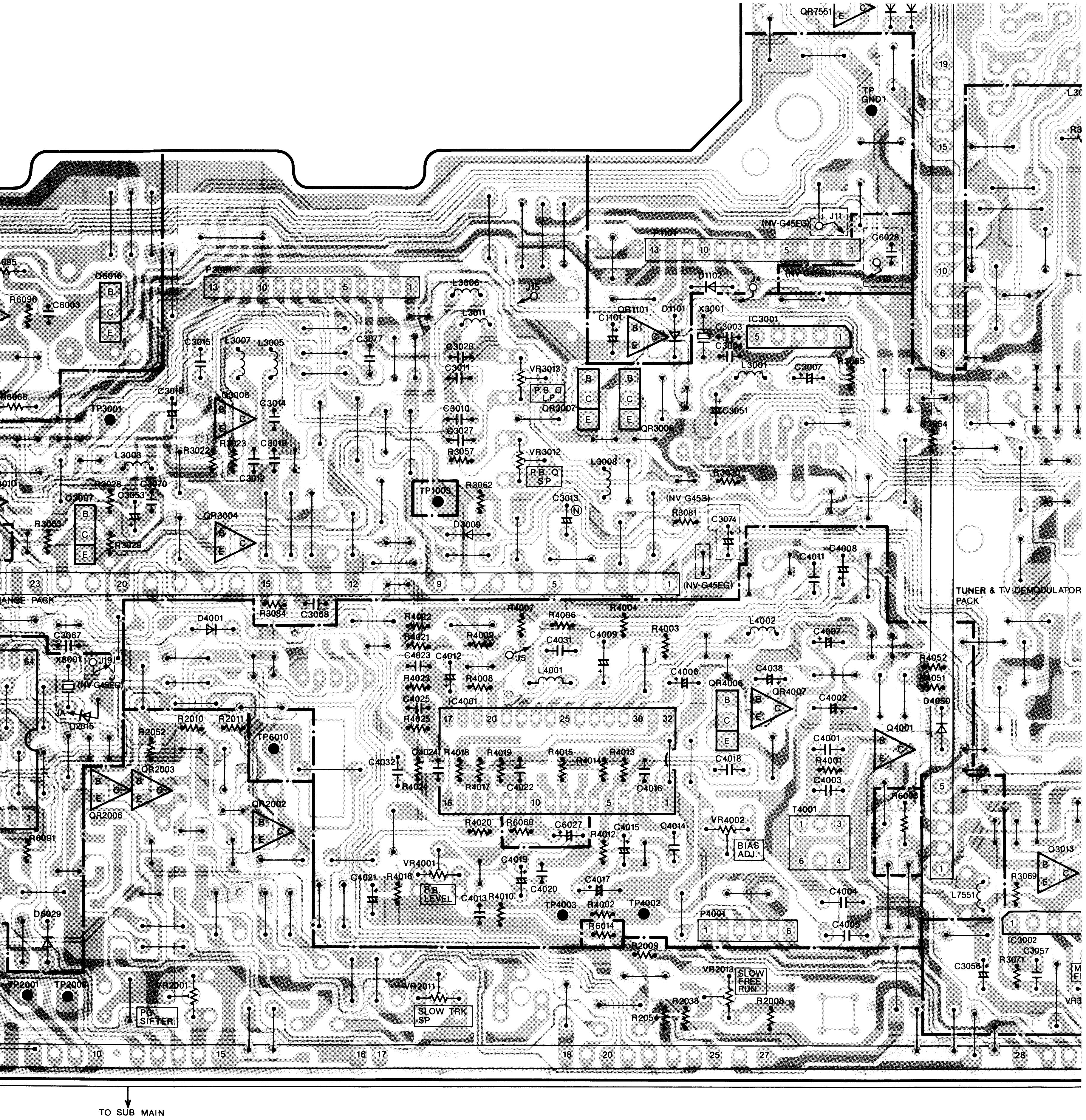
REF. NO.	Q6007			Q6009			Q6016			Q6017			Q6018			Q6019		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	12.2	12.2	11.5	12.2	−0.1	12.2	14.4	15.9	15.6	0	14.4	0.2	0	0.3	0	0.8	14.4	0.7
PLAY	12.2	12.2	11.5	12.2	−0.1	12.2	10.6	15.7	11.8	0	10.6	0.2	0	0.3	0	0.8	10.6	0.7
REC	12.2	12.1	11.4	12.1	11.9	11.3	10.7	15.7	11.8	0	10.6	0.2	0	0.3	0	0.8	10.6	0.7
F.F	12.2	12.2	11.5	12.2	−0.1	12.2	14.4	15.8	15.6	0	14.4	0.2	0	0.3	0	0.8	14.4	0.7
REW	12.2	12.2	11.5	12.2	−0.1	12.2	14.4	15.8	15.6	0	14.4	0.2	0	0.3	0	0.8	14.4	0.7

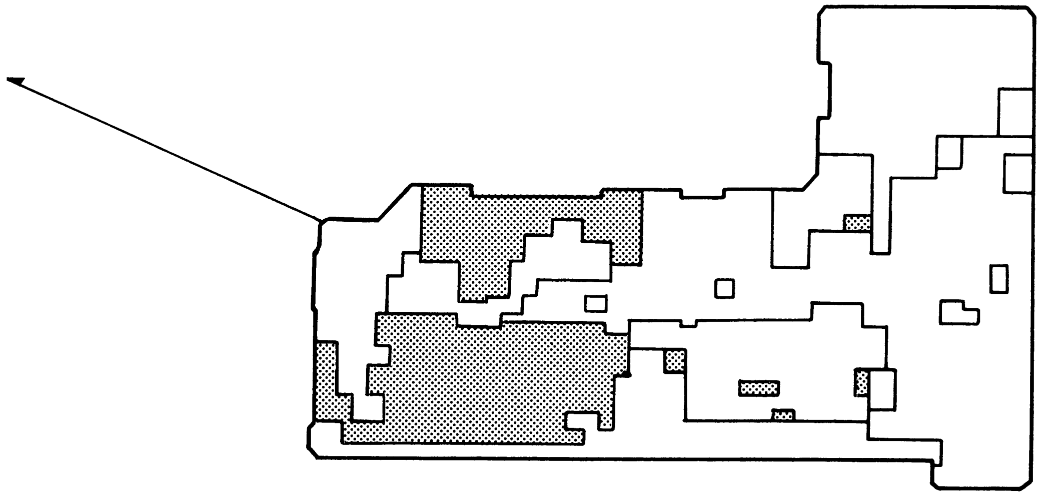
REF. NO.	Q6020																	
MODE	E	C	B															
STOP	0.3	14.4	0.4															
PLAY	0.3	10.6	0.4															
REC	0.3	10.6	0.4															
F.F	0.3	14.4	0.4															
REW	0.3	14.4	0.4															

REF. NO.	QR6001			QR6006			QR6008			QR6011			QR6012					
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B			
STOP	0	4.9	0.4	5.0	4.9	0.1	5.3	0	5.3	0	15.6	0	5.0	0.7	4.4			
PLAY	0	5.0	0.4	5.0	4.9	0.1	5.4	0	5.4	0	0.1	5.2	5.0	0.7	4.4			
REC	0	5.0	0.3	5.1	5.0	0.2	5.3	0	5.3	0	0.1	5.1	5.1	0.7	4.4			
F.F	0	5.0	0.3	5.0	4.9	0.1	5.3	0	5.3	0	15.6	0	5.0	0.7	4.3			
REW	0	4.9	0.3	5.0	4.9	0	5.3	0	5.3	0	15.6	0	5.0	0.7	4.3			

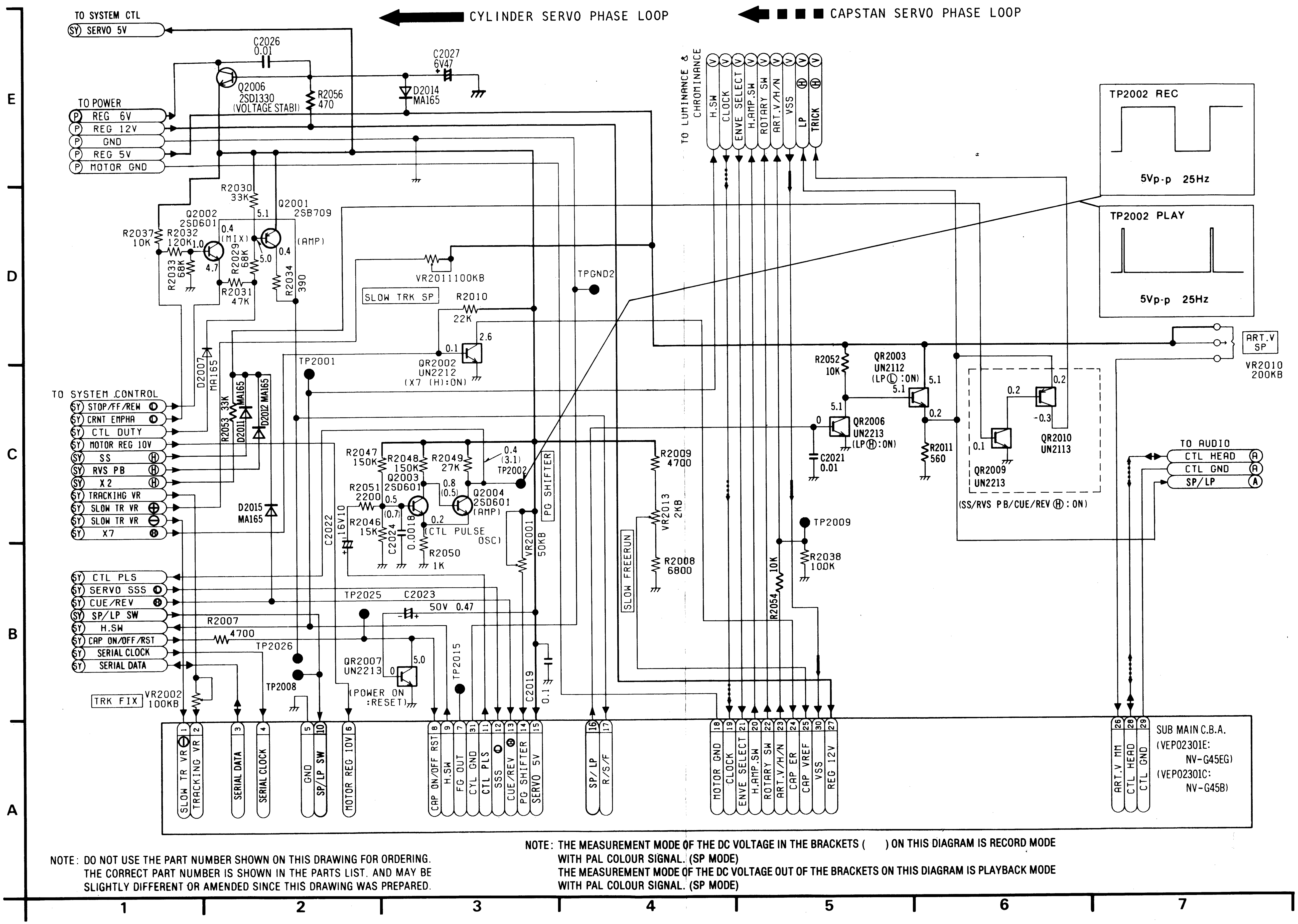
3-8. SYSTEM CONTROL Section In Main C.B.A. (VEP03493AT: NV-G45EG) (VEP03493AG: NV-G45B)


MECHANISM CONNECTION C.B.A. (VEK3583)
P1505
P1504
R1502
R1501
TO MODE SW
TO SOLENOID
LED C.B.A. (VXA2689)
REEL SENSOR C.B.A. (VEK3555)
IC1501
P1506
TO SAFETY TAB SW
PHOTO Tr. (T) C.B.A. (VEK3577)
P1508
R1503
C1502
Q1502
TO CASSETTE SW
PHOTO Tr. (S) C.B.A. (VEK3578)
P1507
C1501
Q1501
IC6001
IC6002
IC6004
P6001
P6002
P6003
P7401
P7402
P3001
X6001
X7504
VR2001
VR2002
TRK FIX
PG SIFTER
VPS PACK
(NV-G45EG)
(NV-G45B)
LUMINANCE & CHROMINANCE PACK
TP GND2
TO SUB MAIN


QR7551
TP GND1
P1101
(NV-G45EG)
J11
C6028
J16
J4
D1102
QR1101
D1101
X3001
C1101
C3003
C3004
IC3001
L3001
C3007
R3065
C3051
R3064
R3030
(NV-G45B)
R3081
C3074
(NV-G45EG)
P3001
Q6016
R6098
C6003
L3006
J15
L3011
C3026
C3011
VR3013
P.B. Q LP
QR3007
QR3008
C3010
C3027
R3057
VR3012
P.B. Q SP
L3008
C3013
TP1003
R3062
D3009
C3015
L3007
L3005
C3077
C3018
Q3006
C3014
C3019
R3023
R3022
C3012
TP3001
L3003
R3028
C3070
C3053
Q3007
R3063
R3029
QR3004
CHANGE PACK
R3084
C3068
D4001
C3067
X6001
J19
(NV-G45EG)
JA
D2015
R2010
R2011
R2052
QR2003
TP6010
QR2006
QR2002
R6091
D6029
TP2001
TP2006
VR2001
PG SIFTER
R4022
R4021
C4023
C4012
R4023
C4025
R4025
IC4001
R4007
R4006
R4009
J5
C4031
R4008
L4001
R4004
C4009
R4003
C4006
L4002
C4007
C4038
QR4006
QR4007
C4002
C4011
C4008
R4052
R4051
D4050
Q4001
C4001
R4001
C4003
C4018
C4032
C4024
R4024
R4018
R4019
R4017
R4015
R4014
R4013
C4022
C4016
R4020
R6060
C6027
R4012
C4015
C4014
VR4002
BIAS ADJ.
T4001
R6093
VR4001
P.B. LEVEL
C4019
C4020
C4021
R4016
C4013
R4010
TP4003
C4017
R4002
R6014
TP4002
P4001
C4004
C4005
R2009
VR2011
SLOW TRK SP
VR2013
SLOW FREE RUN
R2038
R2054
R2008
TUNER & TV DEMODULATOR PACK
Q3013
R3069
L7551
IC3002
C3057
R3071
C3056
TO SUB MAIN



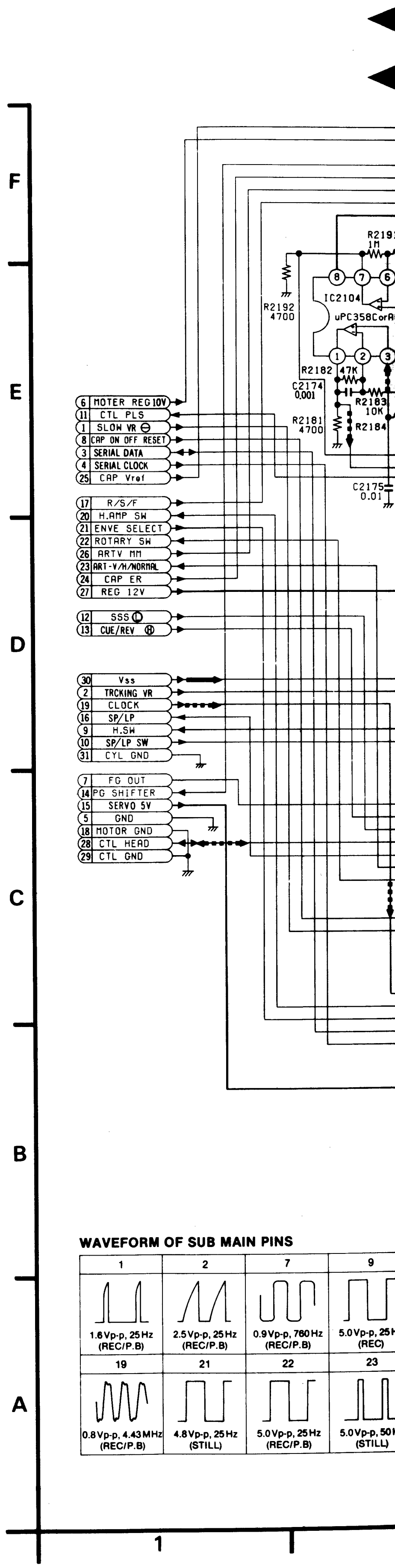
3-9. SERVO SCHEMATIC DIAGRAM


CYLINDER SERVO PHASE LOOP
CAPSTAN SERVO PHASE LOOP
TO SYSTEM CTL
SERVO 5V
TO POWER
REG 6V
REG 12V
GND
REG 5V
MOTOR GND
C2026 0.01
Q2006 2SD1330 (VOLTAGE STABI)
R2056 470
D2014 MA165
C2027 6V47
Q2002 2SD601
R2037 10K
R2032 120K
R2033 68K
R2030 33K
R2029 68K
R2031 47K
Q2001 2SB709
(MIX)
(AMP)
R2034 390
VR2011 100KB
SLOW TRK SP
R2010 22K
QR2002 UN2212 (X7 (H):ON)
TPGND2
TP2001
D2007 MA165
R2053 33K
D2011 MA165
D2012 MA165
D2015 MA165
TO SYSTEM CONTROL
STOP/FF/REW
CRNT EMPHA
CTL DUTY
MOTOR REG 10V
SS
RVS PB
X 2
TRACKING VR
SLOW TR VR ⊕
SLOW TR VR ⊖
X7
CTL PLS
SERVO SSS
CUE/REV
SP/LP SW
H.SW
CAP ON/OFF/RST
SERIAL CLOCK
SERIAL DATA
R2047 150K
R2048 150K
R2049 27K
Q2003 2SD601
Q2004 2SD601 (AMP)
R2051 2200
R2046 15K
C2024 0.0018
(CTL PULSE OSC)
R2050 1K
C2022 16V10
VR2001 50KB
PG SHIFTER
TP2002
R2009 4700
VR2013 2KB
R2008 6800
SLOW FREERUN
TP2025
C2023 50V 0.47
R2007 4700
TP2026
TP2008
QR2007 UN2213 (POWER ON :RESET)
TP2015
C2019 0.1
TRK FIX
VR2002 100KB
TO LUMINANCE & CHROMINANCE
H.SW
CLOCK
ENVE SELECT
H.AMP.SW
ROTARY SW
ART.V/H/N
VSS
LP
TRICK
TP2002 REC
5Vp-p 25Hz
TP2002 PLAY
5Vp-p 25Hz
ART.V SP
VR2010 200KB
R2052 10K
QR2003 UN2112 (LP(L):ON)
QR2006 UN2213 (LP(H):ON)
C2021 0.01
R2011 560
QR2009 UN2213
QR2010 UN2113
(SS/RVS PB/CUE/REV (H): ON)
TP2009
R2038 100K
R2054 10K
TO AUDIO
CTL HEAD
CTL GND
SP/LP
SUB MAIN C.B.A. (VEP02301E: NV-G45EG) (VEP02301C: NV-G45B)
SLOW TR VR
TRACKING VR
SERIAL DATA
SERIAL CLOCK
GND
SP/LP SW
MOTOR REG 10V
CAP ON/OFF RST
H.SW
FG OUT
CYL GND
CTL PLS
SSS
CUE/REV
PG SHIFTER
SERVO 5V
SP/LP
R/S/F
MOTOR GND
CLOCK
ENVE SELECT
H.AMP.SW
ROTARY SW
ART.V/H/N
CAP ER
CAP VREF
VSS
REG 12V
ART.V MM
CTL HEAD
CTL GND
A
B
C
D
E
1
2
3
4
5
6
7

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST. AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

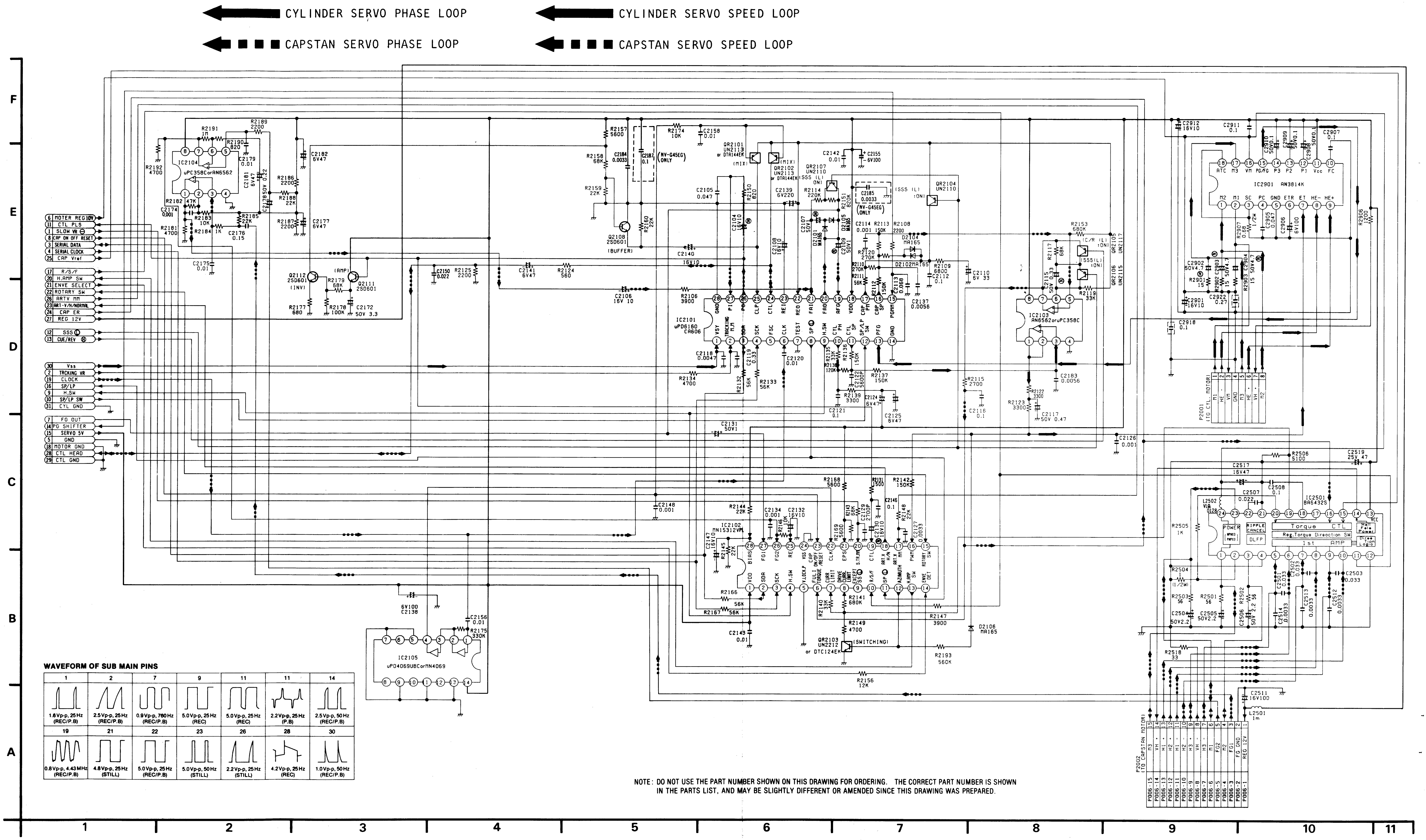
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

3-10. SUB MAIN SCHEM


IC2104 uPC358C
R2192 4700
R2182 47K
C2174 0.001
R2181 4700
R2183 10K
R2184
C2175 0.01
MOTER REG10V
CTL PLS
SLOW VR ⊖
CAP ON OFF RESET
SERIAL DATA
SERIAL CLOCK
CAP Vref
R/S/F
H.AMP SW
ENVE SELECT
ROTARY SW
ARTV MM
ART-V/H/NORMAL
CAP ER
REG 12V
SSS
CUE/REV
Vss
TRCKING VR
CLOCK
SP/LP
H.SW
SP/LP SW
CYL GND
FG OUT
PG SHIFTER
SERVO 5V
GND
MOTOR GND
CTL HEAD
CTL GND
WAVEFORM OF SUB MAIN PINS
1
2
7
9
1.6Vp-p, 25Hz (REC/P.B)
2.5Vp-p, 25Hz (REC/P.B)
0.9Vp-p, 780Hz (REC/P.B)
5.0Vp-p, 25 (REC)
19
21
22
23
0.8Vp-p, 4.43MHz (REC/P.B)
4.8Vp-p, 25Hz (STILL)
5.0Vp-p, 25Hz (REC/P.B)
5.0Vp-p, 50 (STILL)
A
B
C
D
E
F
1

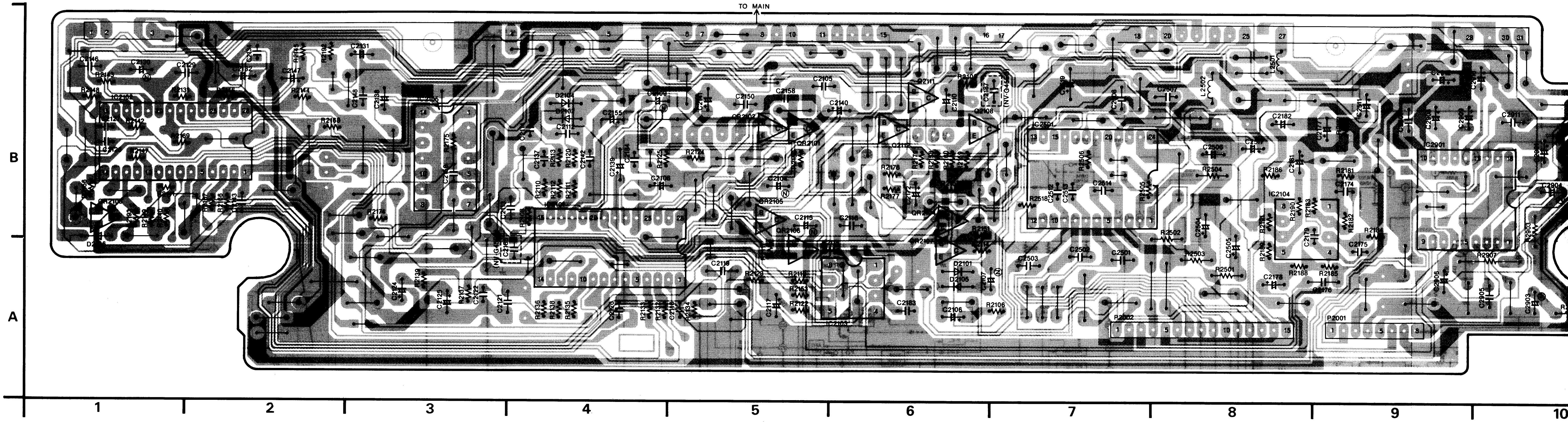
Back Page:
SYSTEM CONTROL Section

3-10. SUB MAIN SCHEMATIC DIAGRAM


CYLINDER SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CAPSTAN SERVO SPEED LOOP
6 MOTER REG 10V
11 CTL PLS
1 SLOW VR ⊖
8 CAP ON OFF RESET
3 SERIAL DATA
4 SERIAL CLOCK
25 CAP Vref
17 R/S/F
20 H.AMP SW
21 ENVE SELECT
22 ROTARY SW
26 ARTV MM
23 ART-V/H/NORMAL
24 CAP ER
27 REG 12V
12 SSS Ⓛ
13 CUE/REV Ⓗ
30 Vss
2 TRCKING VR
19 CLOCK
16 SP/LP
9 H.SW
10 SP/LP SW
31 CYL GND
7 FG OUT
14 PG SHIFTER
15 SERVO 5V
5 GND
18 MOTOR GND
28 CTL HEAD
29 CTL GND
IC2104 uPC358C or AN6562
Q2112 2SD601 (INV)
Q2111 2SD601 (AMP)
Q2108 2SD601 (BUFFER)
IC2101 uPD6160 CA606
QR2101 UN2113 or DTA144EK (MIX)
QR2102 UN2113 or DTA144EK (MIX)
QR2107 UN2110 (SSS (L) ON)
QR2104 UN2110 (SSS (L) :ON)
QR2105 QR2106 UN2117 UN2115 (C/R (L) :ON) (SSS(L) :ON)
IC2103 AN6562 or uPC358C
(NV-G45EG) ONLY
IC2901 AN3814K
P2001 (TO CYL MOTOR)
IC2102 MN15312VPL
IC2105 uPD4069UBC or MN4069
QR2103 UN2212 or DTC124EK (SWITCHING)
D2106 MA165
IC2501 BA6432S
Torque CTL
Reg.Torque Direction SW
1st AMP
POWER
RIPPLE CANCEL
DLPF
Hall Pole Power
Direction Logic
P2002 (TO CAPSTAN MOTOR)
WAVEFORM OF SUB MAIN PINS
1 1.6Vp-p, 25Hz (REC/P.B)
2 2.5Vp-p, 25Hz (REC/P.B)
7 0.9Vp-p, 760Hz (REC/P.B)
9 5.0Vp-p, 25Hz (REC)
11 5.0Vp-p, 25Hz (REC)
11 2.2Vp-p, 25Hz (P.B)
14 2.5Vp-p, 50Hz (REC/P.B)
19 0.8Vp-p, 4.43MHz (REC/P.B)
21 4.8Vp-p, 25Hz (STILL)
22 5.0Vp-p, 25Hz (REC/P.B)
23 5.0Vp-p, 50Hz (STILL)
26 2.2Vp-p, 25Hz (STILL)
28 4.2Vp-p, 25Hz (REC)
30 1.0Vp-p, 50Hz (REC/P.B)
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-11. SUB MAIN C.B.A. (VEP02301E: NV-G45EG) (VEP02301C: NV-G45B)


TO MAIN
B
A
1
2
3
4
5
6
7
8
9
10
IC2101
IC2102
IC2103
IC2104
IC2105
IC2501
IC2901
P2001
P2002

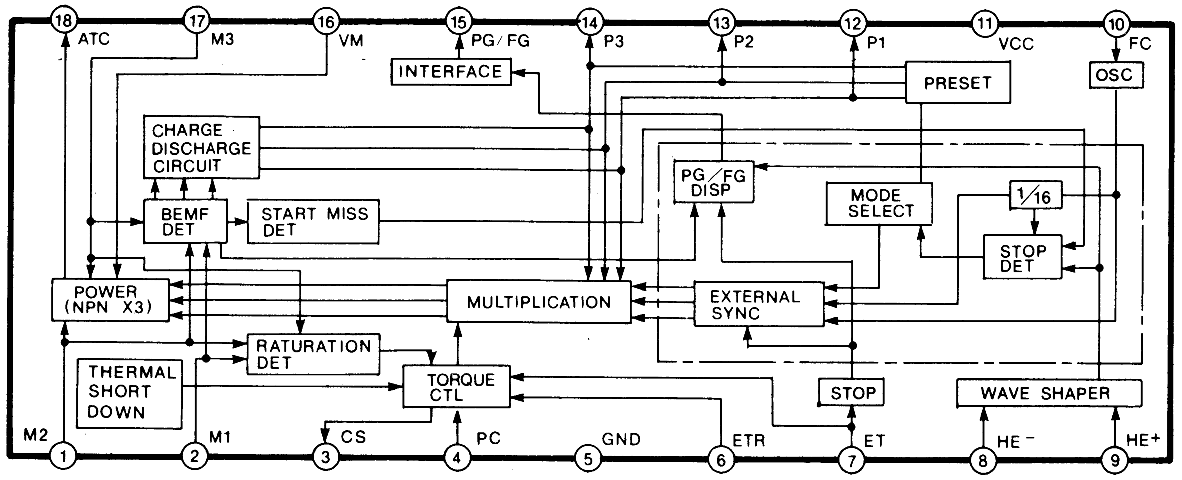
SUB MAIN ICs VOLTAGE CHART (SP MODE)

REF. NO.	IC2101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	2.6	0.8	5.0	5.2	5.0	2.4	0	0	2.6	2.4	2.5	5.0	1.1	0	0.2	2.5	2.6	5.0	2.5	2.5
REC	2.6	0.8	5.0	5.1	5.0	2.4	0	0	2.6	2.4	2.4	5.0	1.1	0	0.2	2.5	2.6	5.0	2.5	2.5
REF. NO.	IC2101																			
MODE	21	22	23	24	25	26	27	28												
PLAY	2.5	2.5	2.5	2.6	2.5	1.3	2.7	0												
REC	2.5	2.5	2.5	2.6	3.0	2.6	2.6	0												
REF. NO.	IC2102																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	5.0	5.1	5.2	2.6	0	2.6	5.0	0.7	0	0	0	0	0	4.5	2.6	2.4	0.4	0	2.6	0.1
REC	5.0	5.1	5.2	2.6	0	2.6	5.0	0.7	0	0	0	0	0	0.2	2.6	2.4	0.4	0	2.6	0
REF. NO.	IC2102																			
MODE	21	22	23	24	25	26	27	28												
PLAY	2.5	2.2	5.0	0	2.4	2.5	2.6	2.5												
REC	2.5	2.2	5.0	0	2.4	2.5	2.6	2.5												
REF. NO.	IC2103										IC2104									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
PLAY	2.4	2.4	2.5	0	2.5	2.5	2.6	5.0			2.5	2.5	2.5	0	2.5	2.5	2.5	5.0		
REC	2.4	2.4	2.5	0	2.5	2.5	2.6	5.0			2.5	2.5	2.5	0	2.5	2.5	2.5	5.0		
REF. NO.	IC2105																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
PLAY	2.4	2.4	2.4	2.2	0	5.0	0	5.0	0	5.0	0	5.0	0	5.0						
REC	2.4	2.4	2.4	2.2	0	5.0	0	5.0	0	5.0	0	5.0	0	5.0						
REF. NO.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PLAY	1.4	0.1	1.6	0	1.8	1.8	1.9	1.9	1.9	1.9	0.4	0	5.0	3.3	2.9	2.6	4.2	4.0	0.7	0.1
REC	1.4	0.1	1.6	0	1.8	1.8	1.9	1.9	1.9	1.9	0.4	0	5.0	3.3	2.9	2.6	4.2	4.0	0.7	0.1
REF. NO.	IC2501																			
MODE	21	22	23	24																
PLAY	0	4.3	1.6	10.6																
REC	0	4.3	1.6	10.6																
REF. NO.	IC2901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
PLAY	10.5	10.5	0.1	0.5	0	2.5	2.4	0.6	0.5	2.7	5.0	3.7	3.7	3.7	1.1	10.6	10.5	0.1		
REC	10.5	10.5	0.1	0.5	0	2.5	2.4	0.6	0.5	2.7	5.0	3.7	3.7	3.7	1.1	10.6	10.5	0.1		

SUB MAIN TRANSISTORS VOLTAGE CHART (SP MODE)

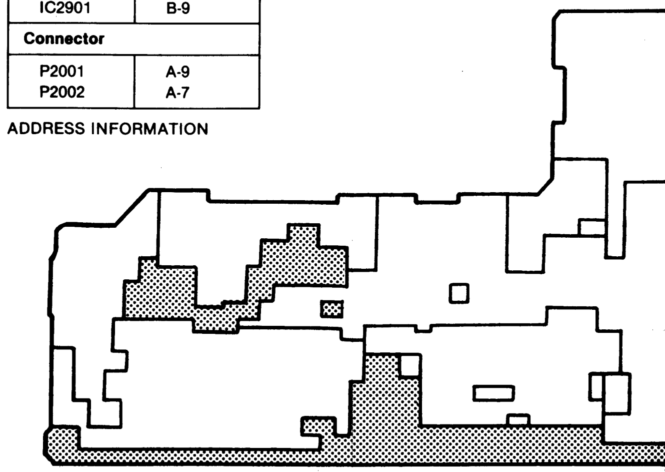
REF. NO.	Q2108			Q2111			Q2112											
MODE	E	C	B	E	C	B	E	C	B									
PLAY	0	0	0.5	1.6	5.0	1.2	0.3	2.4	0.9									
REC	0	0	0.2	3.0	5.0	2.6	0.6	0.6	1.2									
REF. NO.	QR2101			QR2102			QR2103			QR2104			QR2105			QR2106		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
PLAY	2.5	2.5	4.6	2.5	2.6	4.6	0	0.7	0	2.5	2.5	5.1	2.6	2.6	0	2.6	2.5	5.1
REC	2.5	3.0	4.6	2.5	2.6	4.6	0	0.7	0	2.5	2.6	5.1	2.6	2.6	0	2.6	2.5	5.1
REF. NO.	Q2107																	
MODE	E	C	B															
PLAY	2.5	2.5	5.1															
REC	2.5	2.5	5.1															

IC BLOCK
IC2901 (AN3814K)

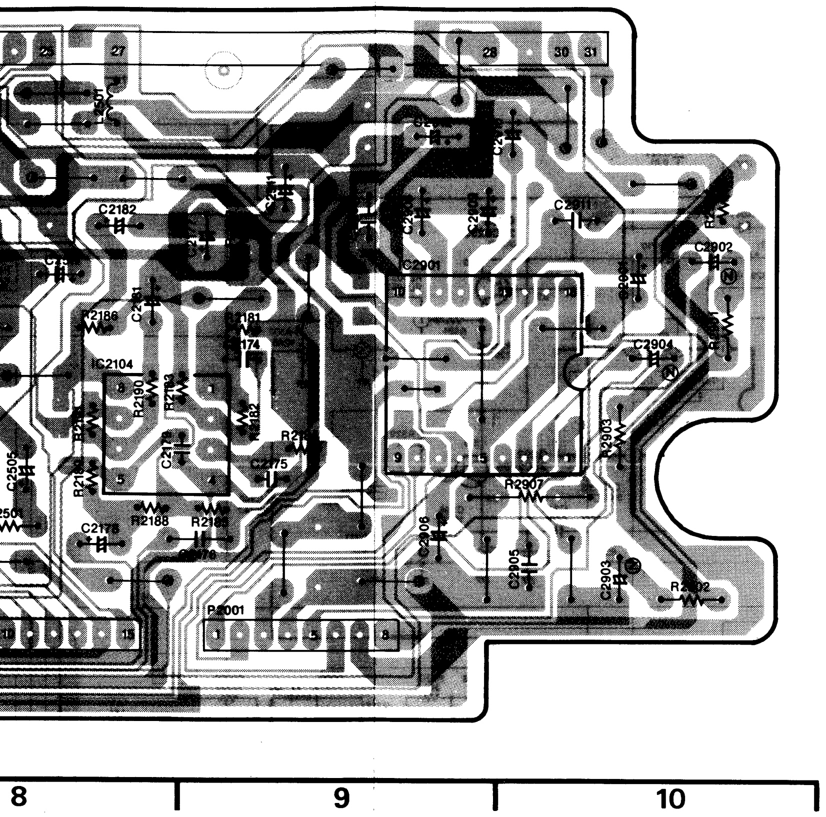

18 ATC
17 M3
16 VM
15 PG/FG
14 P3
13 P2
12 P1
11 VCC
10 FC
INTERFACE
PRESET
OSC
CHARGE DISCHARGE CIRCUIT
PG/FG DISP
MODE SELECT
1/16
BEMF DET
START MISS DET
STOP DET
POWER (NPN X3)
MULTIPLICATION
EXTERNAL SYNC
RATURATION DET
THERMAL SHORT DOWN
TORQUE CTL
STOP
WAVE SHAPER
M2 1
M1 2
3 CS
4 PC
5 GND
6 ETR
7 ET
8 HE⁻
9 HE+

SUB MAIN C.B.A.	
Transistor	
Q2108	B-6
Q2111	B-6
Q2112	B-6
Transistor & Resistor	
QR2101	B-5
QR2102	B-5
QR2103	B-1
QR2104	B-6
QR2105	B-5
QR2106	B-5
QR2107	A-6
Integrated Circuit	
IC2101	B-4
IC2102	B-1
IC2103	A-6
IC2104	B-8
IC2105	B-3
IC2501	B-7
IC2901	B-9
Connector	
P2001	A-9
P2002	A-7

ADDRESS INFORMATION

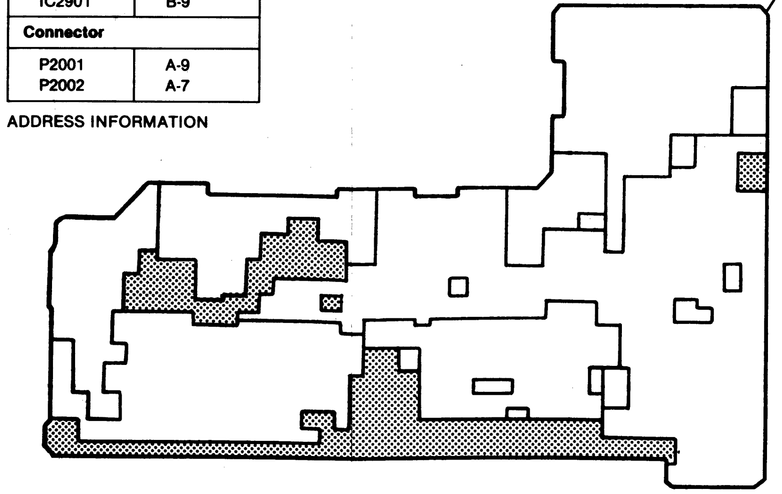


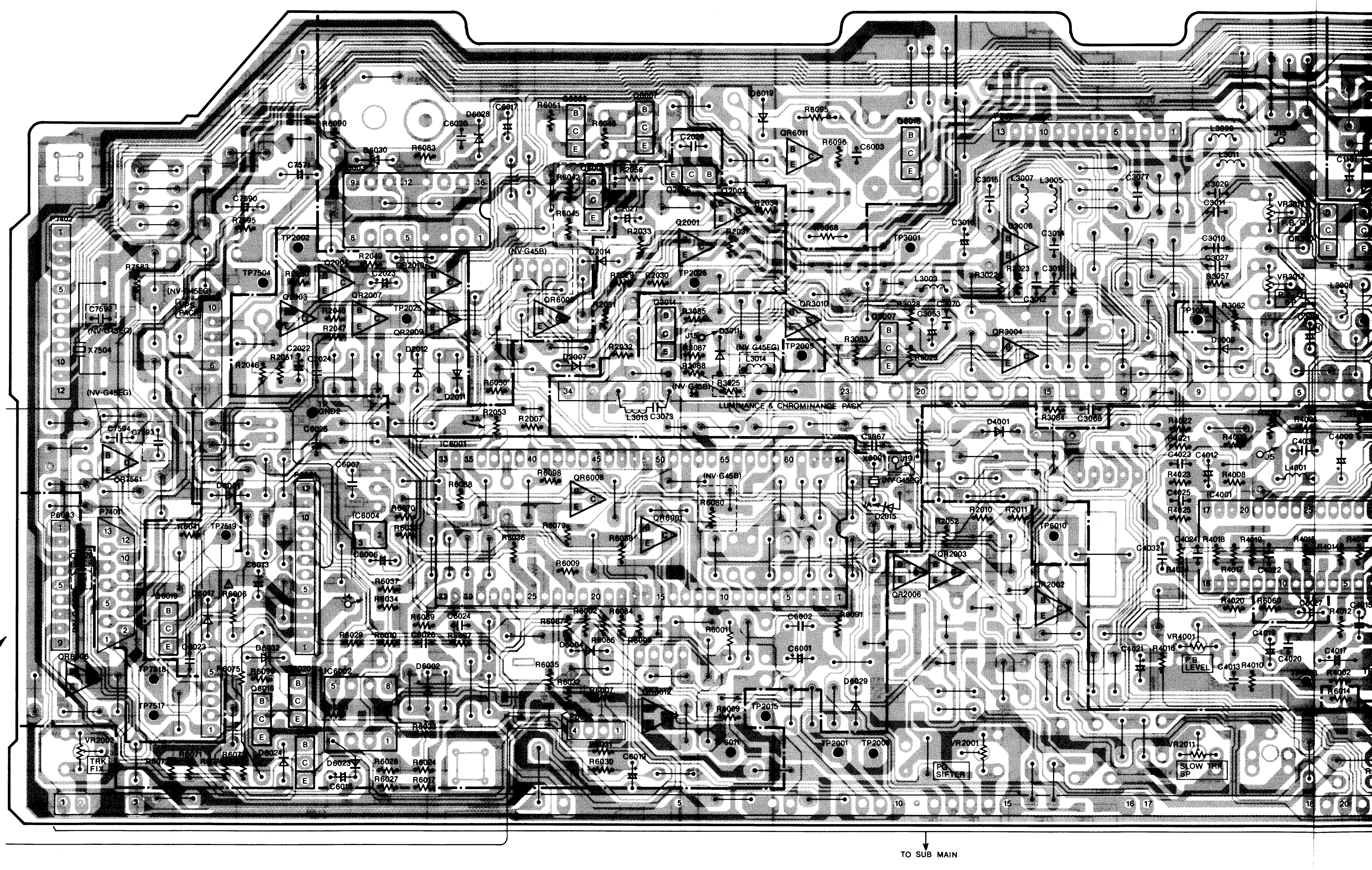
3-12. SERVO Section In Main C.B.A. (VEP03493AT: NV-G45EG) (VEP03493AG: NV-G45B)



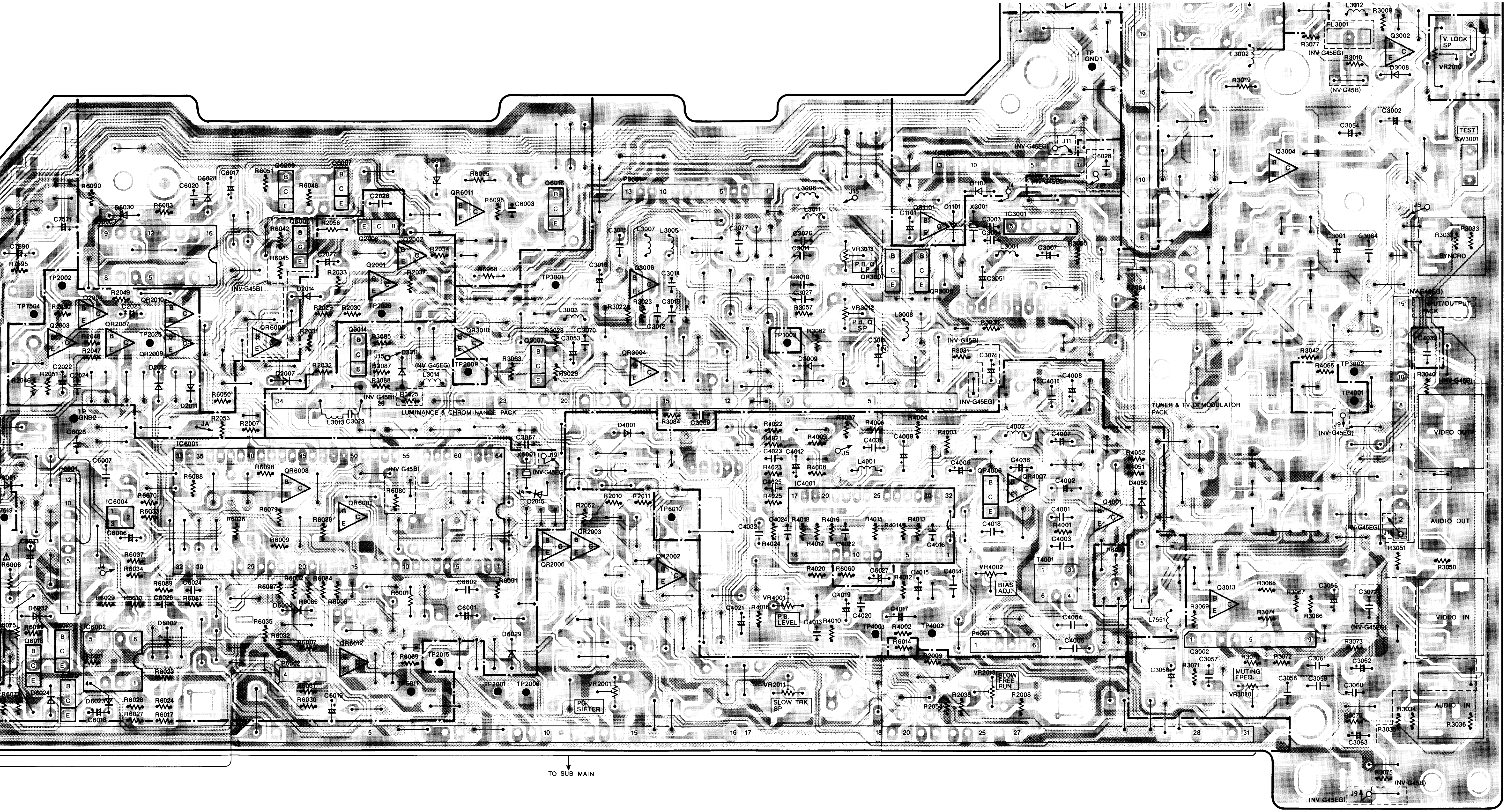
SUB MAIN C.B.A.	
Transistor	
Q2108	B-6
Q2111	B-6
Q2112	B-6
Transistor & Resistor	
QR2101	B-5
QR2102	B-5
QR2103	B-1
QR2104	B-6
QR2105	B-5
QR2106	B-5
QR2107	A-6
Integrated Circuit	
IC2101	B-4
IC2102	B-1
IC2103	A-6
IC2104	B-8
IC2105	B-3
IC2501	B-7
IC2901	B-9
Connector	
P2001	A-9
P2002	A-7

ADDRESS INFORMATION



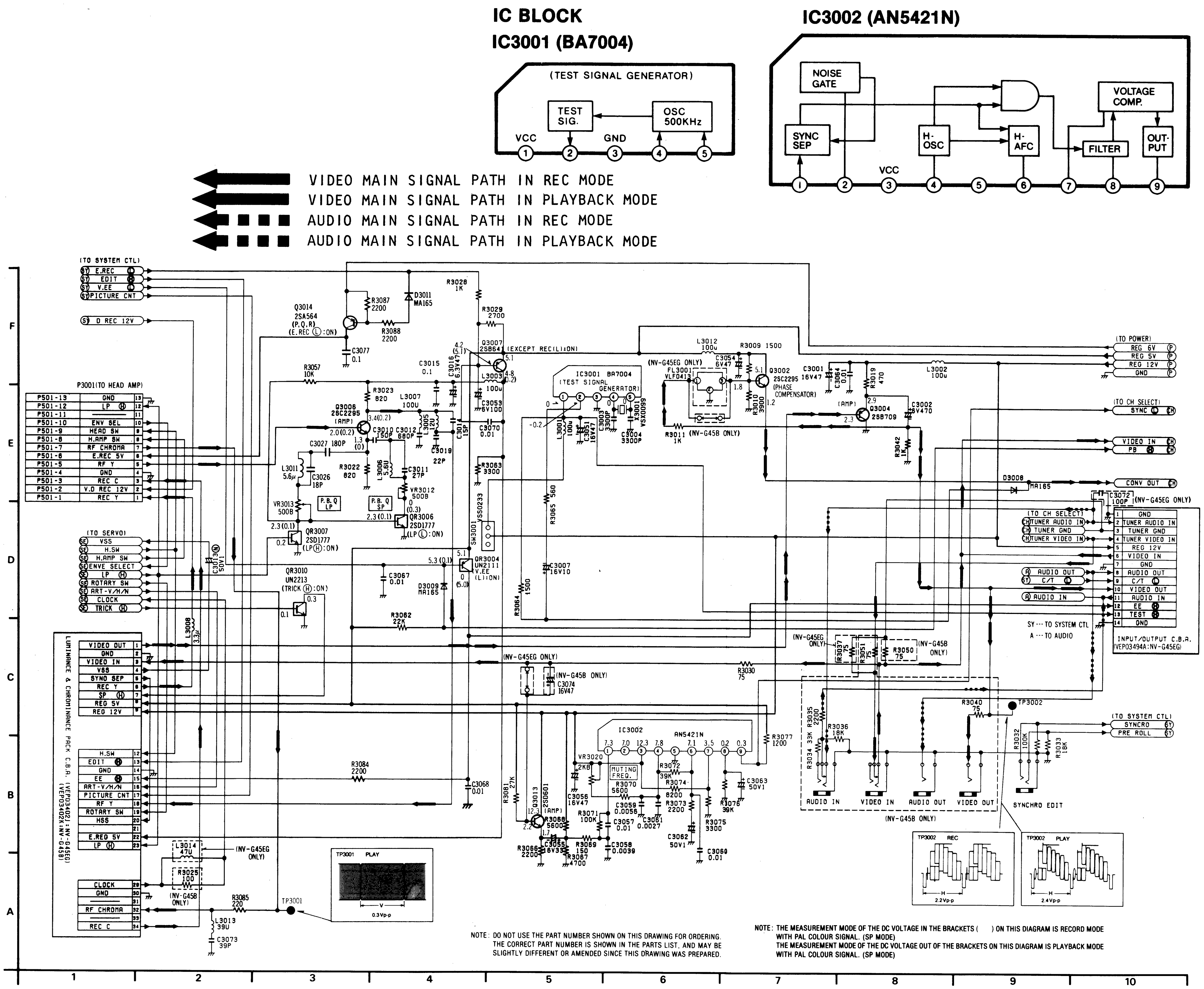

LUMINANCE & CHROMINANCE PACK
TRK FIX
PB SIFTER
SLOW TRK SP
PB LEVEL
(NV-G45EG)
(NV-G45B)
IC6001
TO SUB MAIN

n In Main C.B.A. (VEP03493AT: NV-G45EG) (VEP03493AG: NV-G45B)


LUMINANCE & CHROMINANCE PACK
TUNER & TV DEMODULATOR PACK
INPUT/OUTPUT PACK
VIDEO OUT
AUDIO OUT
VIDEO IN
AUDIO IN
V. LOCK SP
VR2010
TEST SW3001
SYNCRO
P.B. Q LP
VR3013
P.B. Q SP
VR3012
P.B. LEVEL
VR4001
BIAS ADJ.
VR4002
SLOW FREE RUN
VR2013
SLOW TRK SP
VR2011
PG SIFTER
VR2001
MUTING FREQ.
VR3020
IC6001
IC6002
IC6004
IC4001
IC3001
IC3002
TP GND1
TP GND2
TP2002
TP7504
TP2025
TP2026
TP2009
TP3001
TP1009
TP2015
TP6011
TP2001
TP2008
TP6010
TP4003
TP4002
TP3002
TP4001
(NV-G45EG)
(NV-G45B)
TO SUB MAIN

Next Page:
LUMINANCE & CHROMINANCE Section

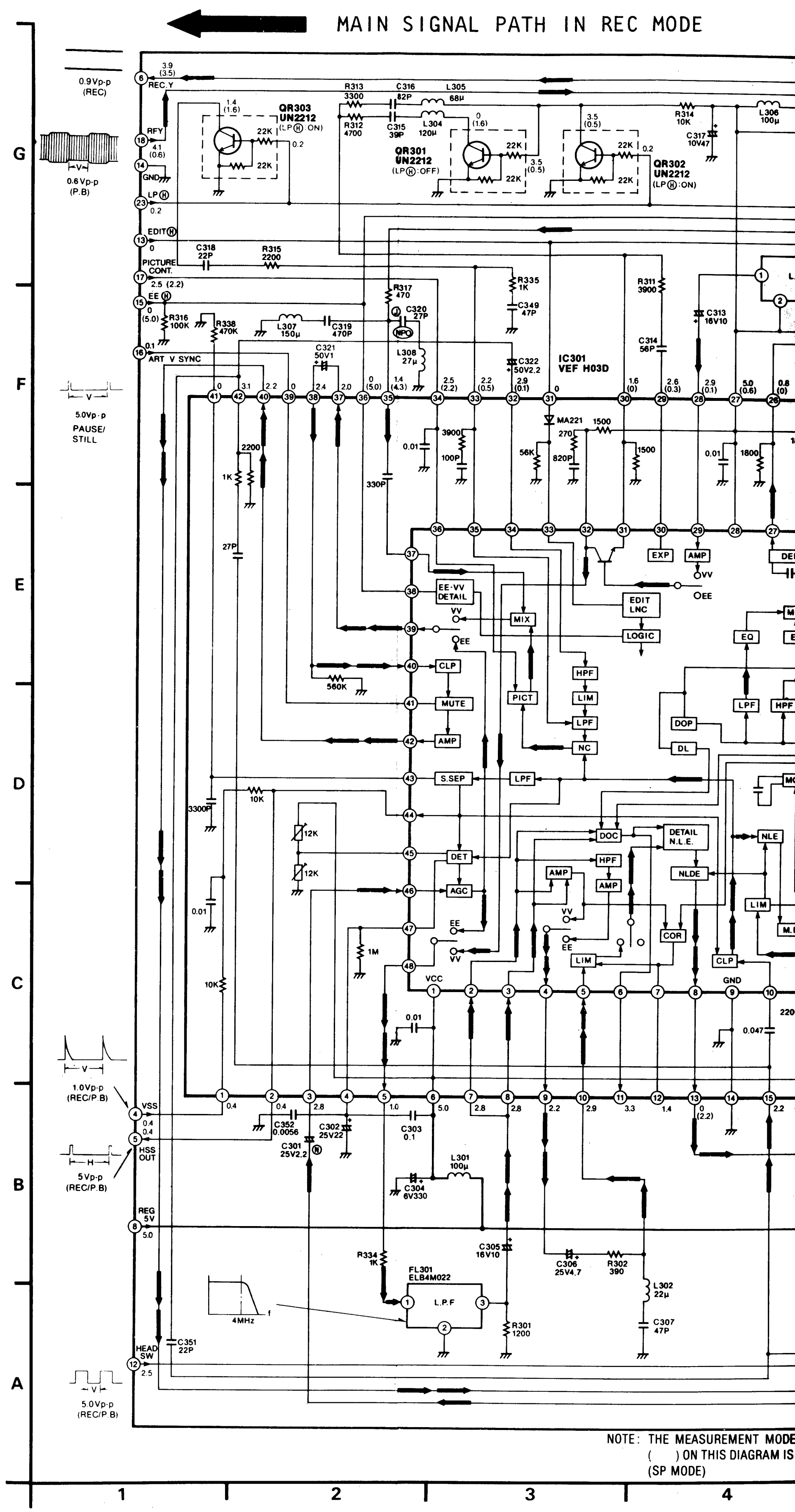
3-13. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM


IC BLOCK
IC3001 (BA7004)
(TEST SIGNAL GENERATOR)
TEST SIG.
OSC 500KHz
VCC
GND
IC3002 (AN5421N)
NOISE GATE
SYNC SEP
H-OSC
H-AFC
VOLTAGE COMP.
FILTER
OUT-PUT
VCC
VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
(TO SYSTEM CTL)
E.REC
EDIT
V.EE
PICTURE CNT
D REC 12V
P3001(TO HEAD AMP)
(TO SERVO)
(TO POWER)
REG 6V
REG 5V
REG 12V
GND
(TO CH SELECT)
SYNC
VIDEO IN
PB
CONV OUT
(TO SYSTEM CTL)
SYNCRO
PRE ROLL
AUDIO IN
VIDEO IN
AUDIO OUT
VIDEO OUT
SYNCHRO EDIT
(NV-G45B ONLY)
INPUT/OUTPUT C.B.R. (VEP03494A:NV-G45EG)
SY···TO SYSTEM CTL
A···TO AUDIO
LUMINANCE & CHROMINANCE PACK C.B.R. (VEP03402A:NV-G45EG) (VEP03402X:NV-G45B)
TP3001 PLAY
0.3Vp-p
TP3002 REC
2.2Vp-p
TP3002 PLAY
2.4Vp-p
1
2
3
4
5
6
7
8
9
10
F
E
D
C
B
A

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

3-14. LUMINANCE & CHROMINANCE PACK SCH


MAIN SIGNAL PATH IN REC MODE
0.9Vp-p (REC)
0.6Vp-p (P.B)
REC.Y
RFY
GND
LP
EDIT
PICTURE CONT.
EE
ART V SYNC
5.0Vp-p PAUSE/STILL
QR303 UN2212
QR301 UN2212
QR302 UN2212
IC301 VEF H03D
EE-VV DETAIL
MIX
EDIT LNC
LOGIC
CLP
MUTE
AMP
S.SEP
LPF
PICT
HPF
LIM
NC
DOC
DETAIL N.L.E.
DET
AGC
NLDE
COR
CLP
1.0Vp-p (REC/P.B)
VSS
HSS OUT
5Vp-p (REC/P.B)
REG 5V
FL301 ELB4M022
L.P.F
4MHz
HEAD SW
5.0Vp-p (REC/P.B)
G
F
E
D
C
B
A
1
2
3
4

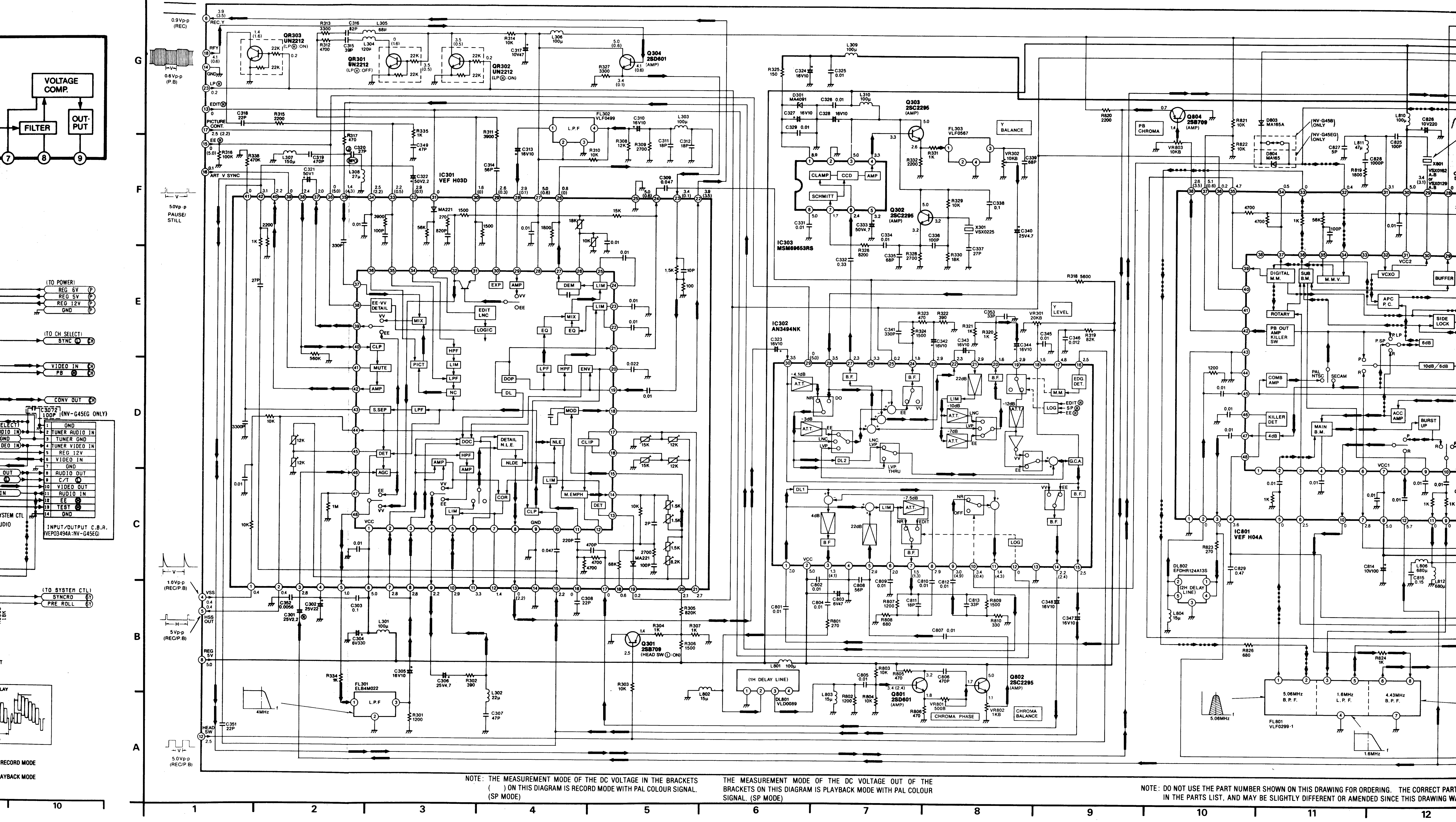
NOTE: THE MEASUREMENT MODE
( ) ON THIS DIAGRAM IS
(SP MODE)

3-14. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE



VOLTAGE COMP.
FILTER
OUT-PUT
REC Y
EDIT Ⓡ
PICTURE CONT.
ART V SYNC
QR303 UN2212
QR301 UN2212
QR302 UN2212
Q304 2SD601 (AMP)
IC301 VEF H03D
FL302 VLF0499
L.P.F
IC303 MSM69653RS
CLAMP
CCD
AMP
SCHMITT
Q303 2SC2295 (AMP)
Q302 2SC2295 (AMP)
FL303 VLF0567
Y BALANCE
X301 VSX0225
IC302 AN3494NK
Y LEVEL
Q804 2SB709 (AMP)
PB CHROMA
D803 MA165A
D804 MA165
X801 VSX0182 A-B or VSX0129 A-B
IC801 VEF H04A
DIGITAL M.M.
SUB B.M.
M.M.V.
VCXO
BUFFER
APC P.C.
SIDE LOCK
ROTARY
PB OUT AMP KILLER SW
COMB AMP
KILLER DET
MAIN B.M.
ACC AMP
BURST UP
(TO POWER)
REG 6V
REG 5V
REG 12V
GND
(TO CH SELECT)
SYNC
VIDEO IN
PB
CONV OUT
C3072 100P (NV-G45EG ONLY)
INPUT/OUTPUT C.B.A. (VEP03494A:NV-G45EG)
(TO SYSTEM CTL)
SYNCRO
PRE ROLL
0.9Vp-p (REC)
0.6Vp-p (P.B)
5.0Vp-p PAUSE/STILL
1.0Vp-p (REC/P.B)
5Vp-p (REC/P.B)
5.0Vp-p (REC/P.B)
VSS
HSS OUT
REG 5V
HEAD SW
Q301 2SB709 (HEAD SW Ⓛ:ON)
FL301 ELB4M022
4MHz
(1H DELAY LINE)
DL801 VLD0089
Q801 2SD601 (AMP)
Q802 2SC2295 (AMP)
CHROMA PHASE
CHROMA BALANCE
DL802 EFDHR124A13S (2H DELAY LINE)
5.06MHz B.P.F.
1.6MHz L.P.F.
4.43MHz B.P.F.
FL801 VLF0299-1
5.06MHz
1.6MHz
RECORD MODE
PLAYBACK MODE
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
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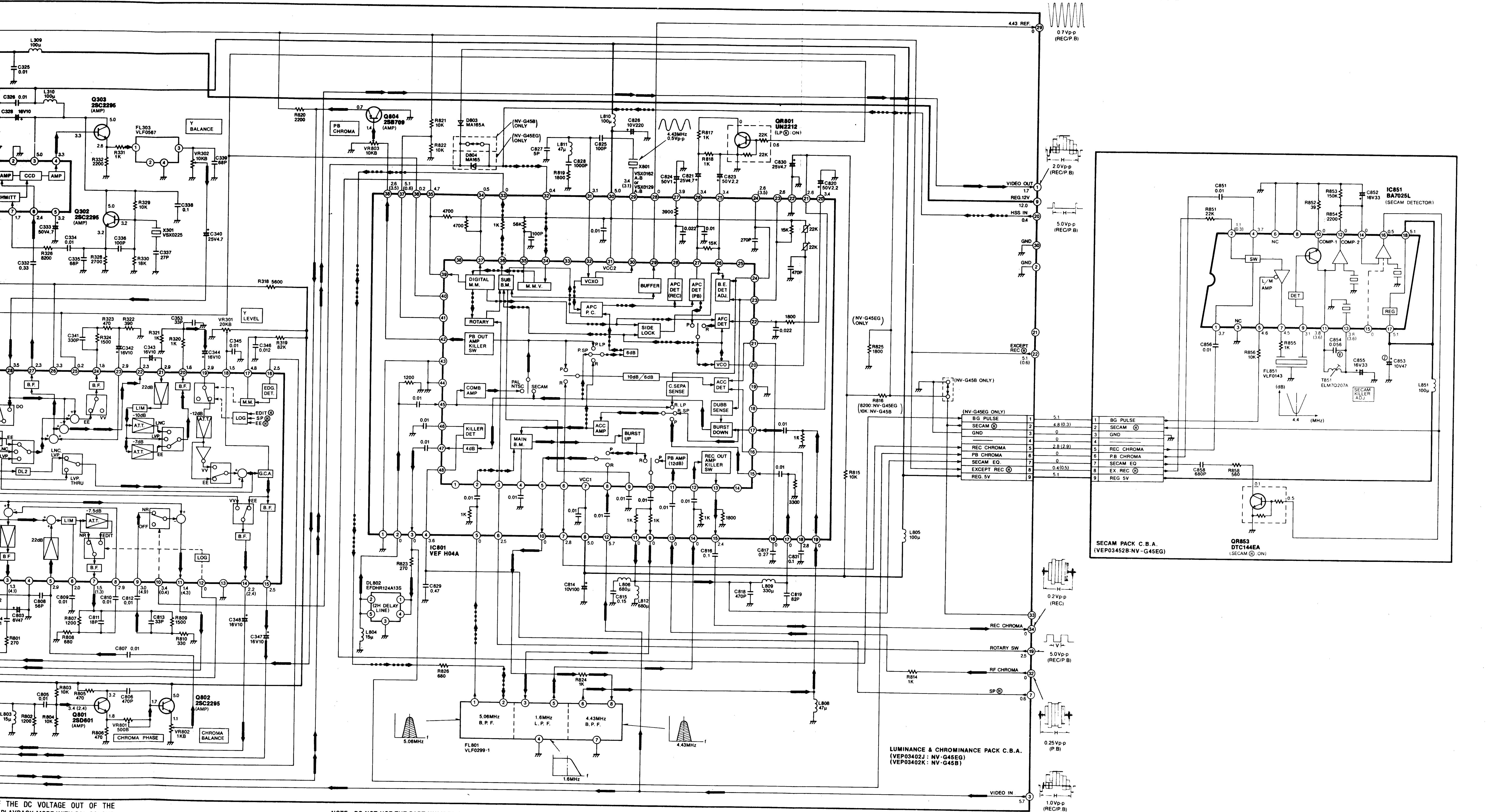
10
11
12

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART
IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WA

IN PLAYBACK MODE ■ ■ ■ 5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE ■ ■ ■ 5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE


IC801
VEF H04A
DIGITAL M.M.
SUB B.M.
M.M.V.
VCXO
BUFFER
APC DET (REC)
APC DET (PB)
B.E. DET ADJ.
ROTARY
APC P.C.
SIDE LOCK
AFC DET
PB OUT AMP KILLER SW
6dB
VCO
10dB / 6dB
C.SEPA SENSE
ACC DET
COMB AMP
PAL NTSC
SECAM
DUBB SENSE
KILLER DET
ACC AMP
BURST UP
BURST DOWN
MAIN B.M.
4dB
PB AMP (12dB)
REC OUT AMP KILLER SW
VCC1
VCC2
X801
VSX0162 A.B or VSX0129 A.B
4.43MHz 0.5Vp-p
Q804
2SB709 (AMP)
VR803 10KB
PB CHROMA
D803 MA165A
D804 MA165
(NV-G45B) ONLY
(NV-G45EG) ONLY
QR801
UN2212
(LP Ⓡ ON)
Q303 2SC2295 (AMP)
Q302 2SC2295 (AMP)
FL303 VLF0567
Y BALANCE
X301 VSX0225
Y LEVEL
VR301 20KB
VR302 10KB
CCD
SCHMITT
AMP
B.F.
LIM
A.T.T.
LNC
LVP
M.M.
LOG
EDIT Ⓡ
SP Ⓡ
EE Ⓡ
G.C.A.
DL2
LVP. THRU
22dB
-10dB
-7dB
-12dB
-7.5dB
NR
OFF
EDIT
Q801
2SD601 (AMP)
Q802
2SC2295 (AMP)
VR801 500B
VR802 1KB
CHROMA PHASE
CHROMA BALANCE
DL802
EFDHR124A13S
(2H DELAY LINE)
FL801
VLF0299-1
5.06MHz B.P.F.
1.6MHz L.P.F.
4.43MHz B.P.F.
5.06MHz
4.43MHz
1.6MHz
4.43 REF.
0.7Vp-p (REC/P.B)
VIDEO OUT
REG.12V
HSS IN
GND
EXCEPT REC Ⓡ
2.0Vp-p (REC/P.B)
5.0Vp-p (REC/P.B)
(NV-G45EG ONLY)
(NV-G45B ONLY)
R816
(8200: NV-G45EG)
(10K: NV-G45B)
BG PULSE
SECAM Ⓡ
GND
REC CHROMA
PB CHROMA
SECAM EQ.
EXCEPT REC Ⓡ
REG. 5V
EX. REC Ⓡ
SECAM EQ
REC CHROMA
ROTARY SW
RF CHROMA
SP Ⓡ
VIDEO IN
0.2Vp-p (REC)
0.25Vp-p (P.B)
1.0Vp-p (REC/P.B)
IC851
BA7025L
(SECAM DETECTOR)
SW
L/M AMP
DET
COMP-1
COMP-2
REG
FL851
VLF0143
T851
ELM7Q207A
SECAM KILLER ADJ
4.4 (MHz)
QR853
DTC144EA
(SECAM Ⓡ ON)
SECAM PACK C.B.A.
(VEP03452B: NV-G45EG)
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03402J : NV-G45EG)
(VEP03402K : NV-G45B)
7
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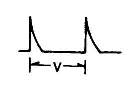
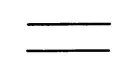
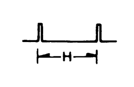
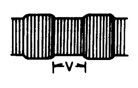
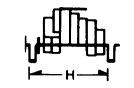
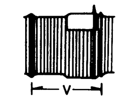
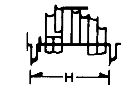
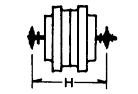
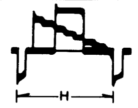
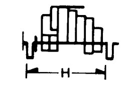
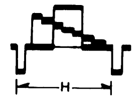
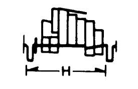
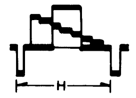
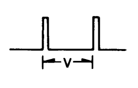
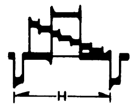
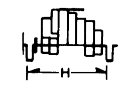
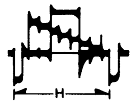
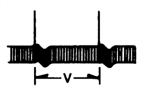
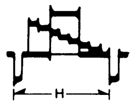
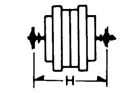
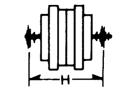
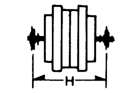
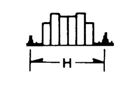
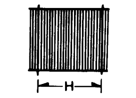
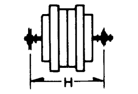
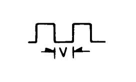
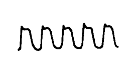
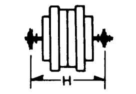
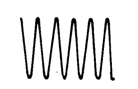
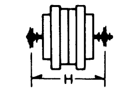
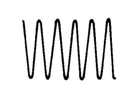
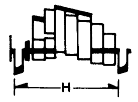
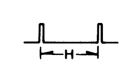
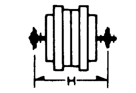
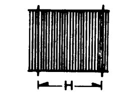
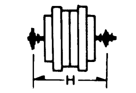
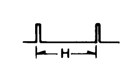
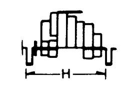
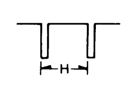
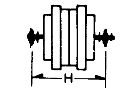
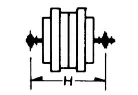
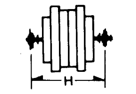
THE DC VOLTAGE OUT OF THE
PLAYBACK MODE WITH PAL COLOUR

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

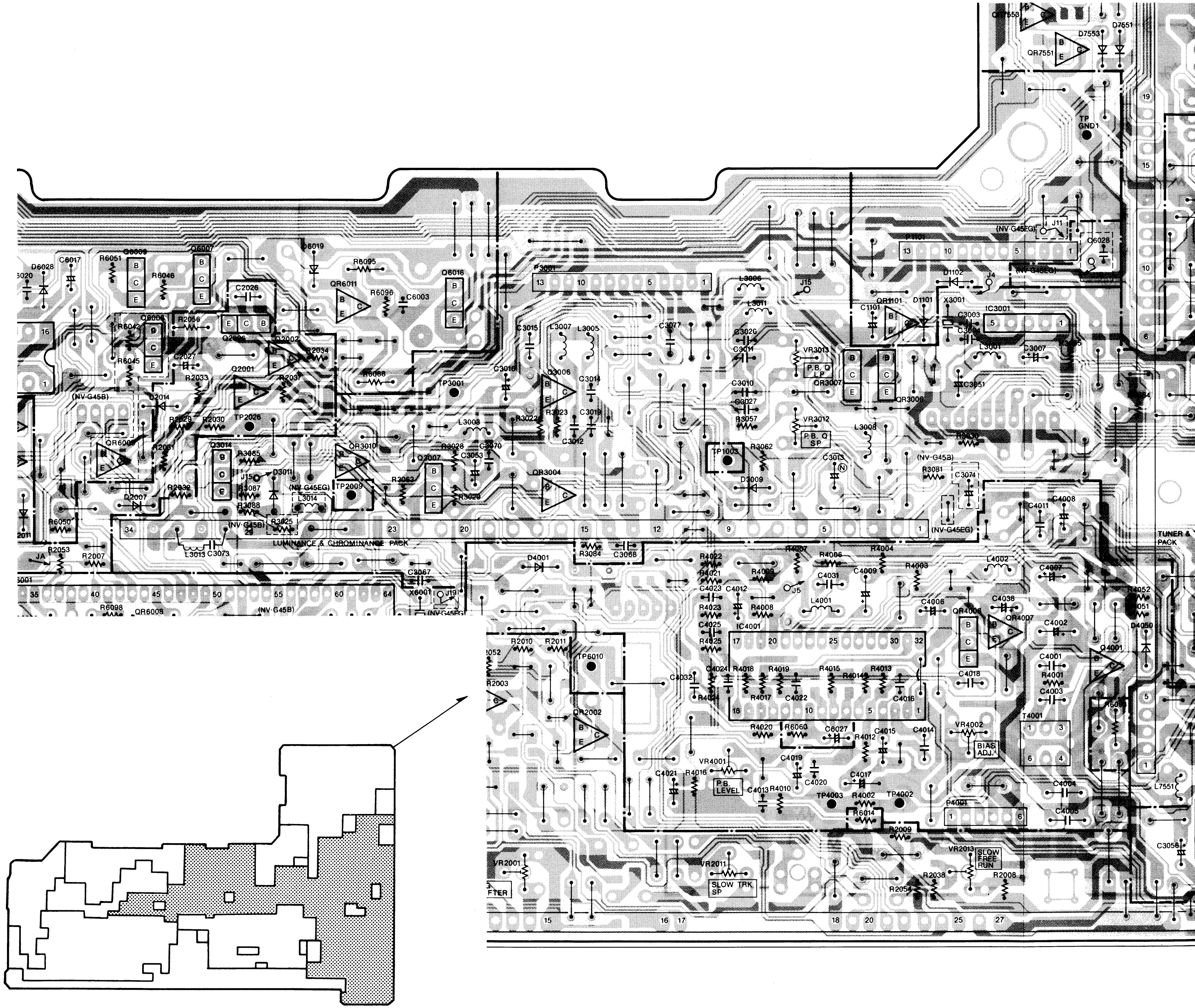
IC301 (VEFH03D)

PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
1	 1.0Vp-p (REC/P.B)	22	 1.2Vp-p (REC)
2	 5.0Vp-p (REC/P.B)	23	 1.2Vp-p (P.B)
3	 0.8Vp-p (REC/P.B)	26	 0.9Vp-p (P.B)
5	 0.9Vp-p (REC)	35	 0.45Vp-p (P.B)
5	 1.0Vp-p (P.B)	37, 38	 0.8Vp-p (REC)
7, 8	 0.45Vp-p (REC) 0.55Vp-p (P.B)	37, 38	 1.0Vp-p (P.B)
11	 0.34Vp-p (REC/P.B)	39	 0.3Vp-p (PAUSE/STILL)
13, 15	 0.9Vp-p (REC/P.B)	40	 2.0Vp-p (REC) 2.5Vp-p (P.B)
16	 0.65Vp-p (REC/P.B)	41	 0.45Vp-p (REC/P.B)
17	 0.9Vp-p (REC/P.B)		

IC801 (VEFH04A)

PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
2	 0.15Vp-p (REC/P.B)	17	 0.5Vp-p (REC) 0.3Vp-p (P.B)
3	 0.8Vp-p (REC/P.B)	18	 1.1Vp-p (REC) 1.2Vp-p (P.B)
5	 0.3Vp-p (REC/P.B)	19	 0.25Vp-p (REC/P.B)
6	 5.0Vp-p (REC/P.B)	28	 0.7Vp-p (REC/P.B)
7	 0.6Vp-p (REC) 0.4Vp-p (P.B)	29	 1.1Vp-p (REC/P.B)
9	 0.45Vp-p (REC) 0.3Vp-p (P.B)	31	 0.8Vp-p (REC/P.B)
10	 0.9Vp-p (REC)	32	 5.0Vp-p (REC/P.B)
10	 1.3Vp-p (P.B)	33	 0.45Vp-p (REC/P.B)
11	 0.4Vp-p (REC) 0.2Vp-p (P.B)	34	 5.0Vp-p (P.B)
12	 0.9Vp-p (REC/P.B)	35	 5.0Vp-p (REC/P.B)
14	 0.3Vp-p (REC) 0.2Vp-p (P.B)	38	 1.2Vp-p (P.B)
15	 0.55Vp-p (REC)		

3-15. LUMINANCE & CHROMINANCE Section In Main C.B.A. (VEP03493AT: NV-G45EG) (VEP03493AG: NV-G45B)



LUMINANCE & CHROMINANCE PACK
TUNER & PACK
IC3001
IC4001
P3001
P1101
P4001
QR7551
D7551
D7553
QR6011
QR3007
QR3006
QR3004
QR3010
QR4007
QR6008
QR2002
Q2001
Q2002
Q3007
Q6016
Q6007
Q6009
Q4001
TP GND1
TP2026
TP2009
TP3001
TP1003
TP6010
TP4003
TP4002
VR3013 P.B. Q LP
VR3012 P.B. Q SP
VR4001 P.B. LEVEL
VR4002 BIAS ADJ.
VR2011 SLOW TRK SP
VR2013 SLOW FREE RUN
VR2001
X3001
X6001
T4001
L3006
L3011
L3007
L3005
L3001
L3008
L3003
L3013
L3014
L4001
L4002
L7551
D1101
D1102
D2007
D2014
D3009
D3011
D4001
D4050
D6019
D6028
C1101
C2026
C2027
C3003
C3007
C3010
C3012
C3014
C3015
C3016
C3019
C3026
C3027
C3051
C3053
C3066
C3067
C3070
C3073
C3074
C3077
C4001
C4002
C4003
C4005
C4006
C4007
C4008
C4009
C4011
C4012
C4013
C4014
C4015
C4016
C4017
C4018
C4019
C4020
C4021
C4022
C4023
C4024
C4025
C4031
C4032
C4036
C6003
C6017
C6027
C6028
R2003
R2007
R2008
R2009
R2010
R2011
R2029
R2030
R2031
R2032
R2033
R2034
R2037
R2038
R2053
R2054
R3023
R3025
R3028
R3029
R3057
R3062
R3063
R3065
R3081
R3084
R3087
R3088
R4001
R4002
R4003
R4004
R4006
R4007
R4008
R4009
R4010
R4012
R4013
R4015
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R4019
R4020
R4021
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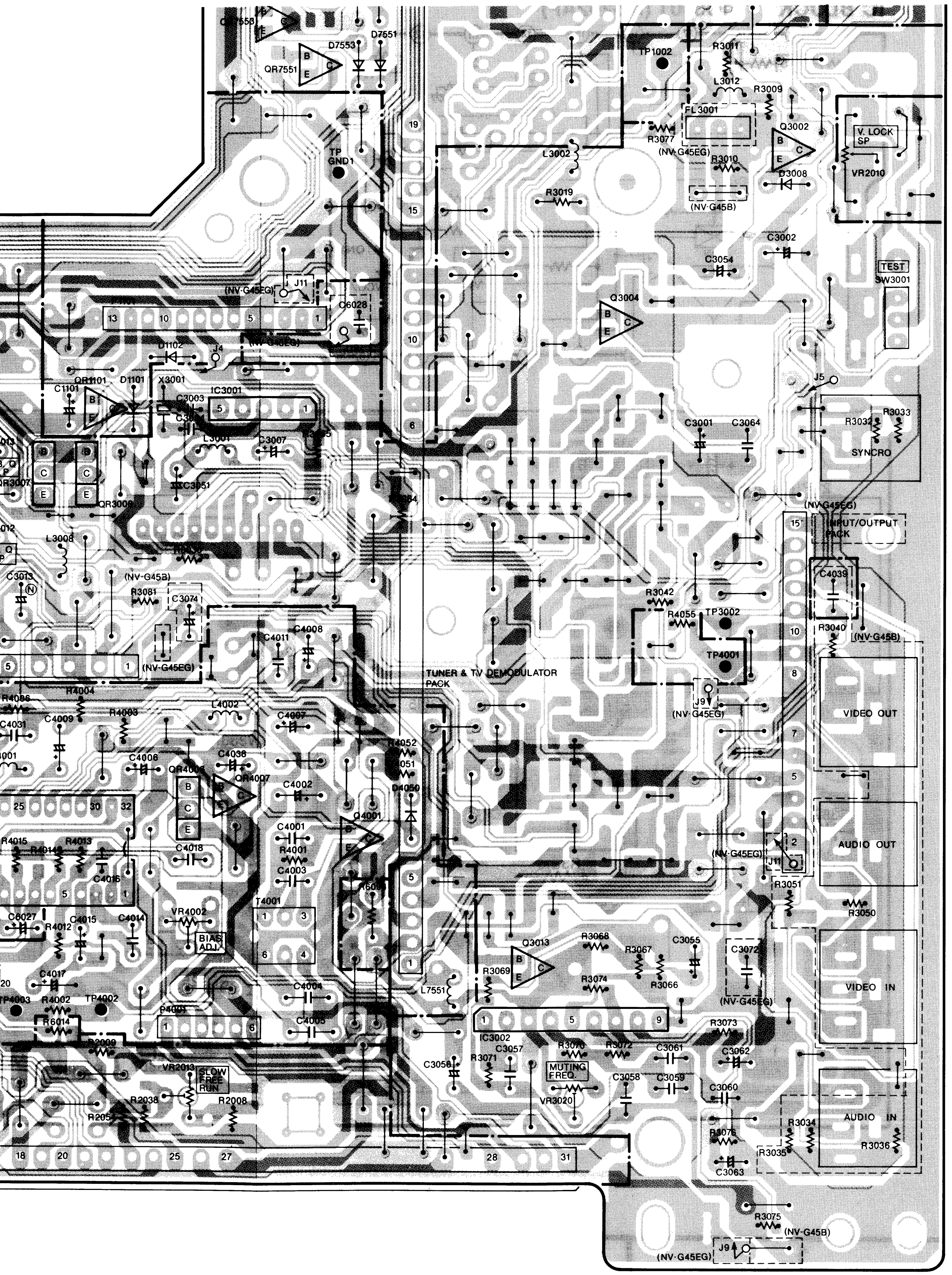
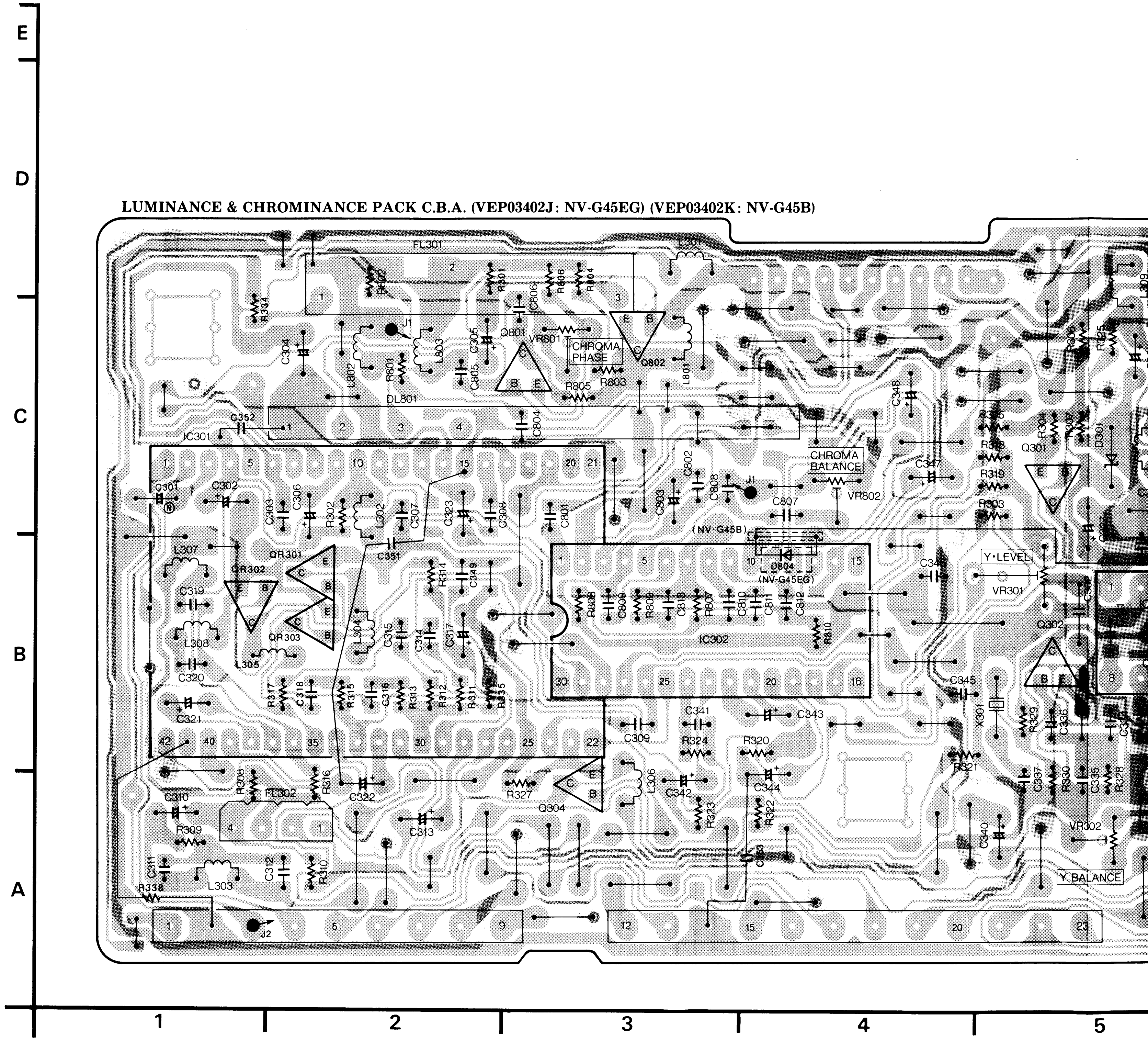
R4025
R6014
R6042
R6045
R6046
R6050
R6051
R6056
R6060
R6066
R6095
R6096
R6098
J4
J11
J15
J19
JA
(NV-G45B)
(NV-G45EG)

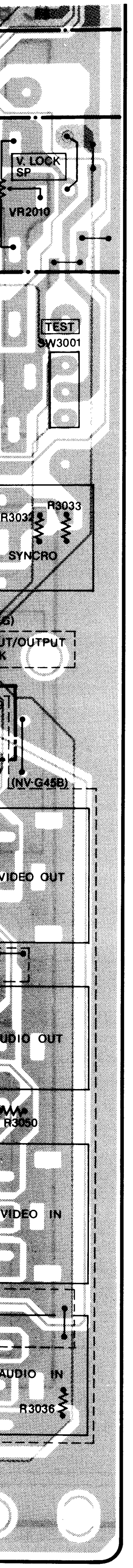

TP GND1
TP1002
FL3001
Q3002
V. LOCK SP
VR2010
D3008
(NV-G45EG)
(NV-G45B)
C3002
C3054
Q3004
TEST
SW3001
IC3001
J4
J5
R3032
R3033
SYNCRO
C3001
C3064
INPUT/OUTPUT PACK
C4039
R3040
TUNER & TV DEMODULATOR PACK
TP3002
TP4001
R4055
R3042
J9
VIDEO OUT
AUDIO OUT
VIDEO IN
AUDIO IN
J11
R3051
R3050
Q3013
R3068
R3067
R3066
R3074
C3055
C3072
R3069
L7551
IC3002
C3057
R3071
C3056
MUTING FREQ.
VR3020
C3058
C3059
C3061
C3062
C3060
R3073
R3076
C3063
R3034
R3035
R3036
R3075
BIAS ADJ
VR4002
T4001
SLOW FREE RUN
VR2013
R2038
R2008
TP4003
TP4002
QR7551
D7553
D7551
L3012
R3009
R3077
L3002
R3019
R3010
QR3101
D1101
C1101
X3001
C3003
L3001
C3007
C3051
QR3007
QR3008
L3008
R3081
C3074
C4011
C4008
L4002
C4007
C4002
QR4006
QR4007
C4036
Q4001
C4001
R4001
C4003
C4004
C4005
C4018
C4009
C4006
R4004
R4003
R4015
R4013
R4012
C4015
C4014
C4016
C4017
R4002
R6014
C6027
C6028
D4050
D1102

3-16. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03402J: NV-G45EG) (VEP03402K


LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03402J: NV-G45EG) (VEP03402K: NV-G45B)

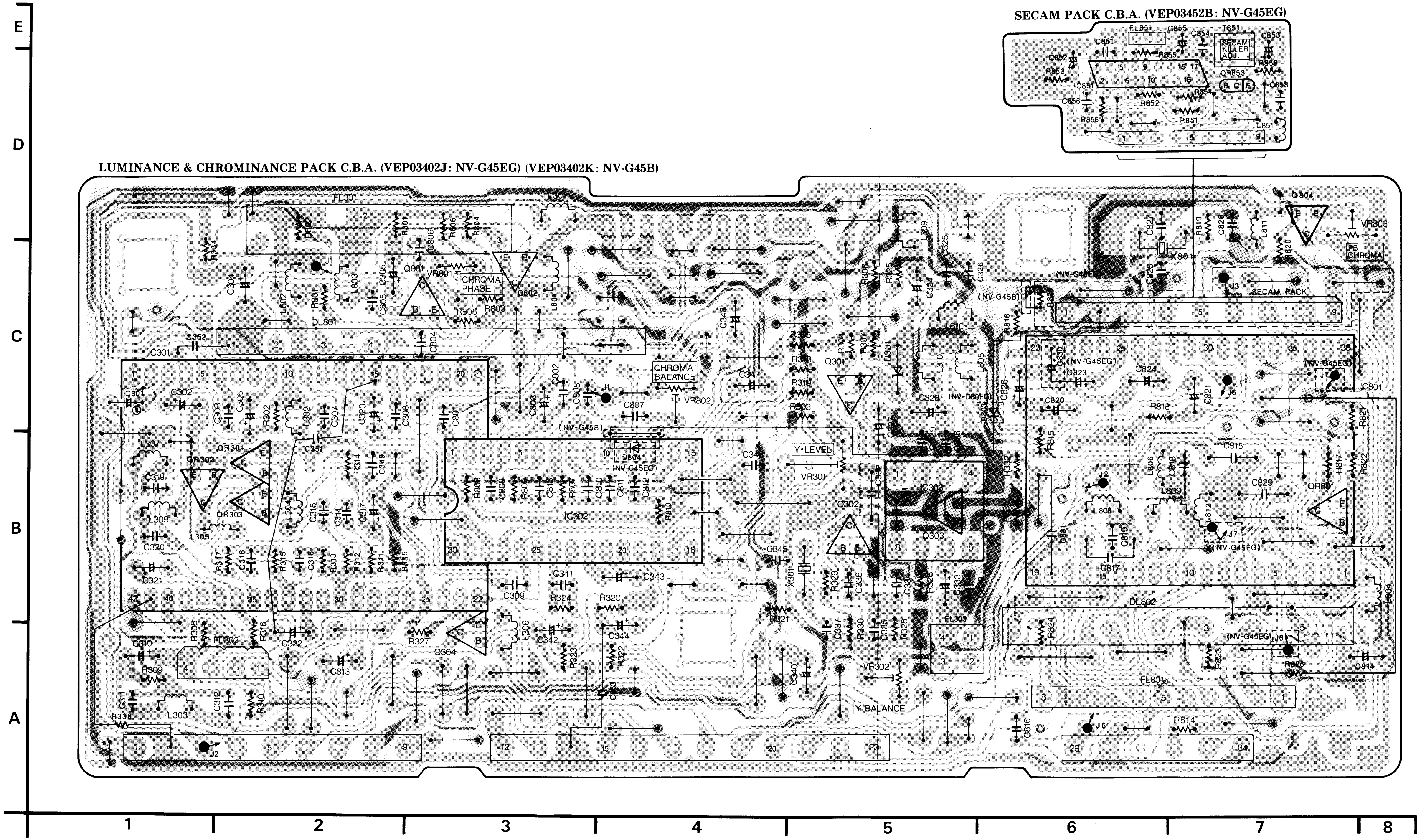
E
D
C
B
A
1
2
3
4
5
FL301
L301
R334
R302
R301
C806
R406
R804
J1
L802
R801
L803
C805
Q801
VR801
CHROMA PHASE
Q802
R805
R803
L801
DL801
C304
C804
C352
IC301
Q301
C302
C303
C306
R302
L302
C307
C323
C308
C801
C802
C803
C808
C807
CHROMA BALANCE
VR802
C348
C347
R319
R303
Q301
D301
L307
QR302
QR301
C351
R314
C349
L304
C315
C314
C317
C319
L308
QR303
L305
C320
C321
R317
C318
R315
C316
R313
R312
R331
R335
(NV-G45B)
D804
(NV-G45EG)
IC302
R808
C809
R809
C813
R807
C810
C811
C812
R810
Y·LEVEL
VR301
C346
Q302
C345
X301
R329
C336
C341
C343
C309
R324
R320
R321
C310
R308
FL302
R316
C322
R309
R327
Q304
L306
C342
R323
R322
C344
C313
C337
R330
C335
R328
C340
VR302
C311
L303
C312
R310
C353
Y BALANCE
R338
J2

3-16. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03402J: NV-G45EG) (VEP03402K: NV-G45B)


V. LOCK SP
VR2010
TEST
SW3001
R3032
R3033
SYNCRO
(NV-G45B)
VIDEO OUT
AUDIO OUT
R3050
VIDEO IN
AUDIO IN
R3036

SECAM PACK C.B.A. (VEP03452B: NV-G45EG)

LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03402J: NV-G45EG) (VEP03402K: NV-G45B)

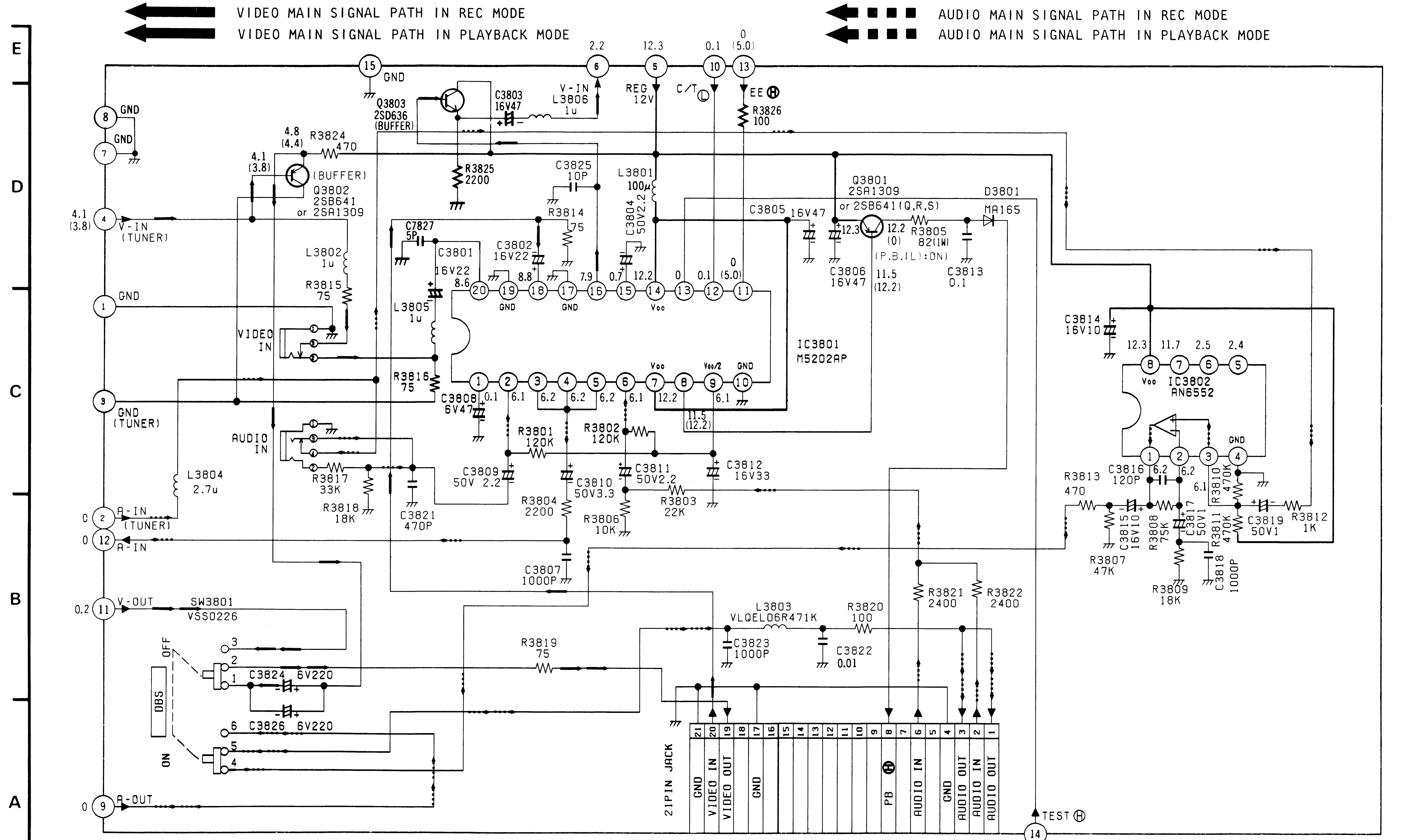

E
D
C
B
A
1
2
3
4
5
6
7
8
FL851
C855
C854
T851
C853
C851
SECAM KILLER ADJ.
C852
R855
R858
R853
IC851
QR853
C858
C856
R852
R854
R856
R851
L851
FL301
L301
Q804
VR803
R334
R802
R801
R806
R804
C806
C304
J1
C305
Q801
VR801
CHROMA PHASE
Q802
L802
L803
C805
R805
R803
L801
DL801
C352
IC301
C804
C301
C302
C303
C306
R302
L302
C307
C323
C308
C801
C803
C802
C808
CHROMA BALANCE
VR802
C807
(NV-G45B)
D804
(NV-G45EG)
L307
QR302
QR301
C351
R314
C349
C319
L308
QR303
L305
L304
C315
C314
C317
IC302
R808
C809
R809
C813
R807
C810
C811
C812
R810
C320
C321
R317
C318
R315
C316
R313
R312
R311
R335
C309
C341
R324
R320
C343
C310
R308
FL302
R316
C332
R327
Q304
L306
C342
R323
C344
R322
C313
R309
C311
L303
C312
R310
R338
C333
J2
C348
C347
C346
R305
R318
R319
R303
R304
R307
Q301
D301
Y·LEVEL
VR301
C322
Q302
C345
X301
R329
C336
R321
C337
R330
C335
R328
C340
VR302
Y BALANCE
L309
R306
R325
C324
C325
C326
(NV-G45B)
L810
L310
L805
C328
(NV-D80EG)
D803
C826
C327
C329
IC303
Q303
R332
R331
C334
R326
C338
C339
FL303
C827
R819
C828
L811
R820
X801
PB CHROMA
C825
(NV-G45EG)
J3
SECAM PACK
R816
C830
(NV-G45EG)
IC823
C824
C821
J6
J7
IC801
C820
R815
R818
R821
C815
L806
C818
J2
L809
C829
QR801
R817
R822
L808
L812
C831
C819
C817
(NV-G45EG)
DL802
R824
R823
(NV-G45EG)
J5
R826
C814
L804
FL801
C816
J6
R814

LUMINANCE & CHROMINANCE PACK C.B.A.	
Transistor	
Q301	C-5
Q302	B-5
Q303	B-5
Q304	A-3
Q801	C-3
Q802	C-3
Q804	D-7
Transistor & Resistor	
QR301	B-2
QR302	B-1
QR303	B-2
QR853	D-7
Integrated Circuit	
IC301	C-1
IC302	B-3
IC303	B-5
IC801	C-8
IC851	D-6
Adjustment	
T851	E-7
VR301	B-5
VR302	A-5
VR801	C-3
VR802	C-4
VR803	D-8

ADDRESS INFORMATION

Next Page:
INPUT/OUTPUT & HEAD AMP Section

3-17. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM (NV-G45EG)


VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
E
D
C
B
A
15 GND
6 2.2 V-IN
5 12.3 REG 12V
10 0.1 C/T Ⓛ
13 0 (5.0) EE Ⓗ
8 GND
7 GND
4 4.1 (3.8) V-IN (TUNER)
1 GND
3 GND (TUNER)
2 0 A-IN (TUNER)
12 0 A-IN
11 0.2 V-OUT
9 0 A-OUT
14 0 TEST Ⓗ
Q3803 2SD636 (BUFFER)
C3803 16V47
L3806 1u
R3826 100
R3824 470
4.8 (4.4)
4.1 (3.8)
Q3802 2SB641 or 2SA1309 (BUFFER)
R3825 2200
C3825 10P
R3814 75
L3801 100μ
C3804 50V2.2
C3805 16V47
Q3801 2SA1309 or 2SB641(Q,R,S)
12.3
12.2 (0)
R3805 82(1W)
(P.B.(L):ON)
D3801 MA165
C3806 16V47
11.5 (12.2)
C3813 0.1
C7827 5P
C3801 16V22
C3802 16V22
8.6
8.8
7.9
0.7
12.2
0
0.1
0 (5.0)
GND
Vcc
L3802 1u
R3815 75
L3805 1u
VIDEO IN
R3816 75
IC3801 M5202AP
Vcc
Vcc/2
GND
C3808 6V47
0.1
6.1
6.2
6.2
6.2
6.1
12.2
11.5 (12.2)
6.1
R3801 120K
R3802 120K
C3809 50V 2.2
C3810 50V3.3
C3811 50V2.2
C3812 16V33
AUDIO IN
R3817 33K
R3818 18K
C3821 470P
R3804 2200
R3806 10K
R3803 22K
L3804 2.7u
C3807 1000P
SW3801 VSS0226
OFF
DBS
ON
C3824 6V220
C3826 6V220
R3819 75
L3803 VLQEL06R471K
C3823 1000P
C3822 0.01
R3820 100
R3821 2400
R3822 2400
21PIN JACK
21 GND
20 VIDEO IN
19 VIDEO OUT
17 GND
8 PB Ⓗ
6 AUDIO IN
4 GND
3 AUDIO OUT
2 AUDIO IN
1 AUDIO OUT
C3814 16V10
12.3 11.7 2.5 2.4
Vcc IC3802 AN6552
GND
C3816 120P
6.2 6.2 6.1
R3813 470
C3815 16V10
R3807 47K
R3808 75K
C3817 50V1
R3809 18K
C3818 1000P
R3810 470K
R3811 470K
C3819 50V1
R3812 1K

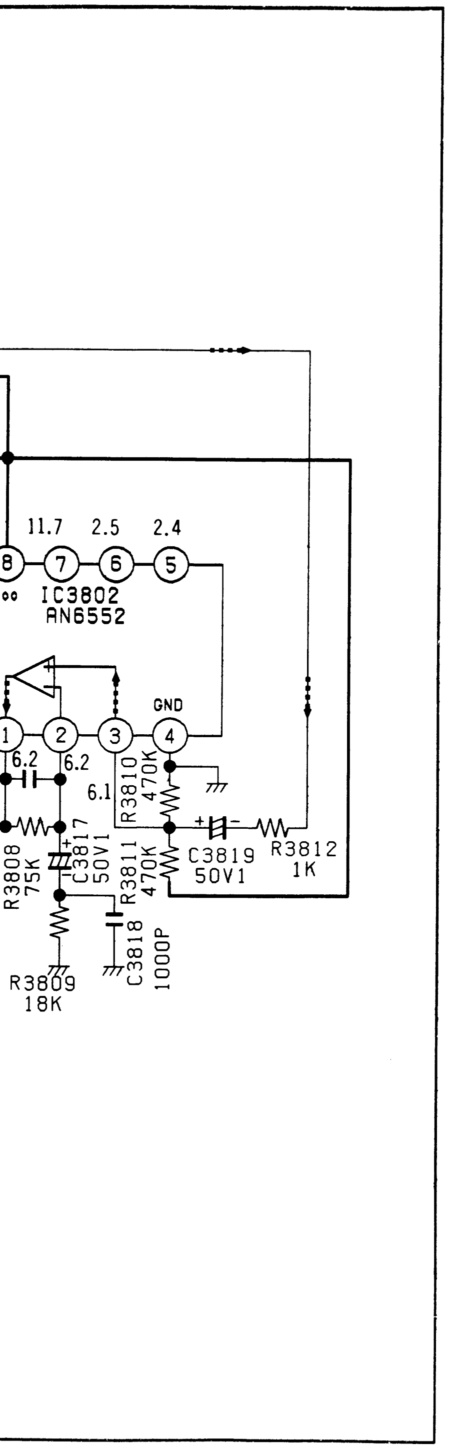
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. **(SP MODE)**
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. **(SP MODE)**

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

1 2 3 4 5 6 7

3-18. INPUT/OU

N REC MODE
N PLAYBACK MODE

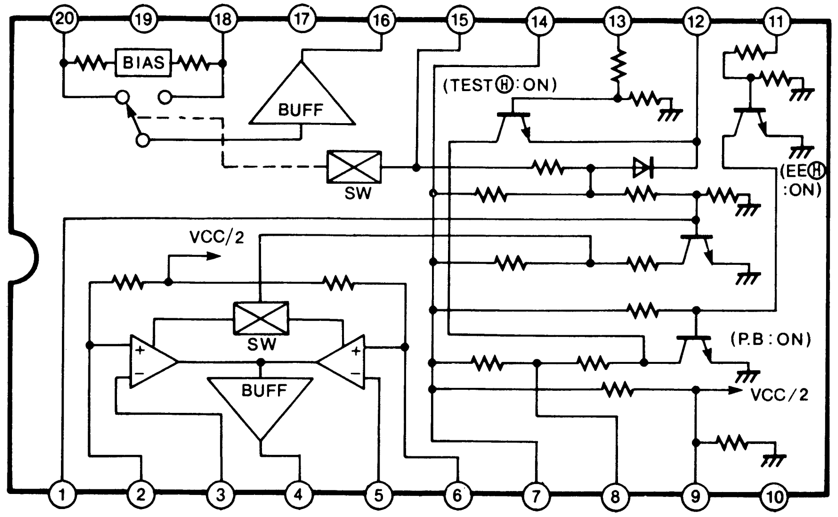

11.7 2.5 2.4
8 7 6 5
IC3802
AN6552
1 2 3 4
GND
6.2
6.2
6.1
R3810 470K
R3811 470K
R3808 75K
C3817 50V1
C3819 50V1
R3812 1K
R3809 18K
C3818 1000P

NG. THE CORRECT PART NUMBER IS SHOWN
SINCE THIS DRAWING WAS PREPARED.

6
7

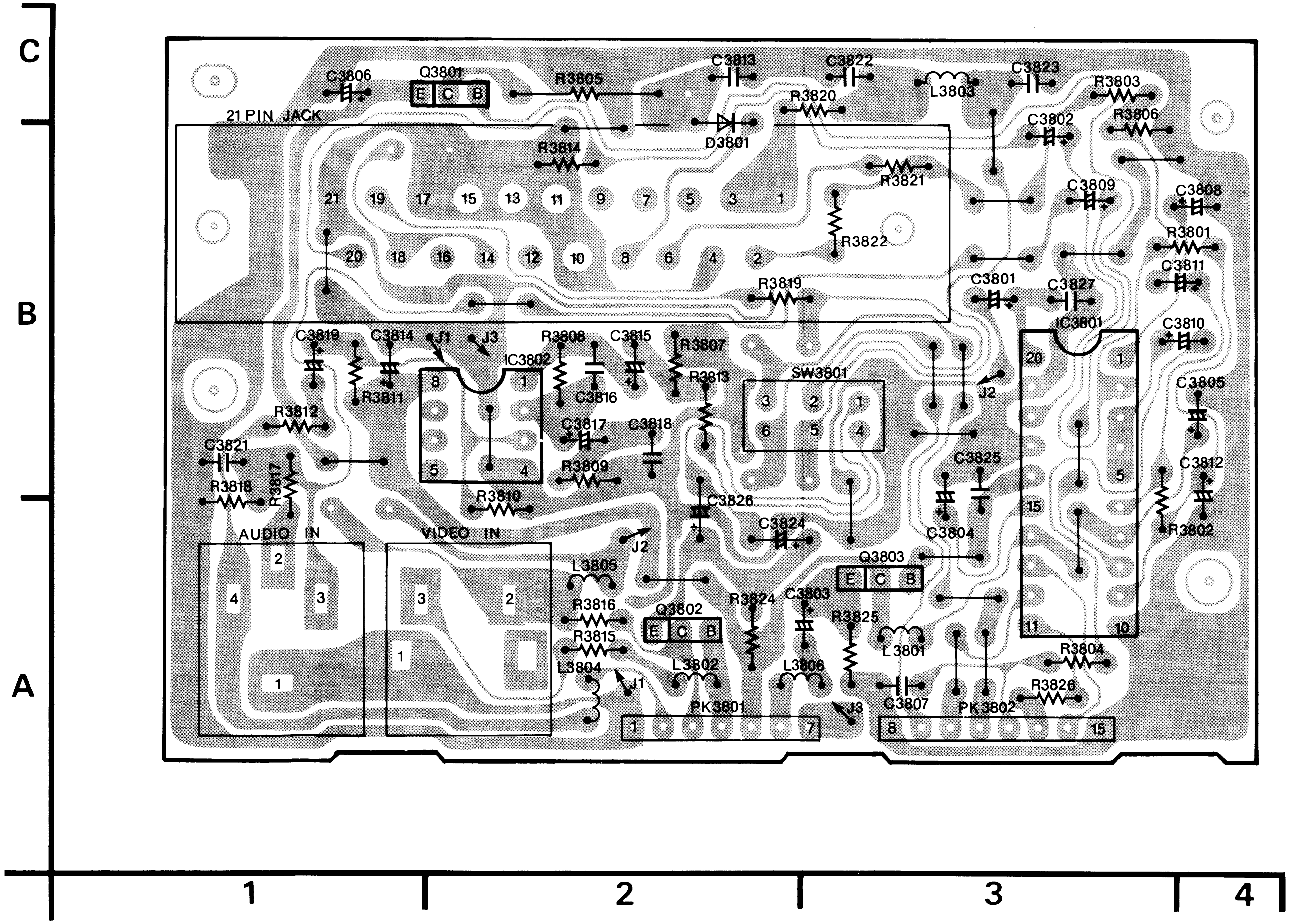
3-18. INPUT/OUTPUT PACK C.B.A. (VEP03494A: NV-G45EG)

IC BLOCK IC3801 (M5202AP)

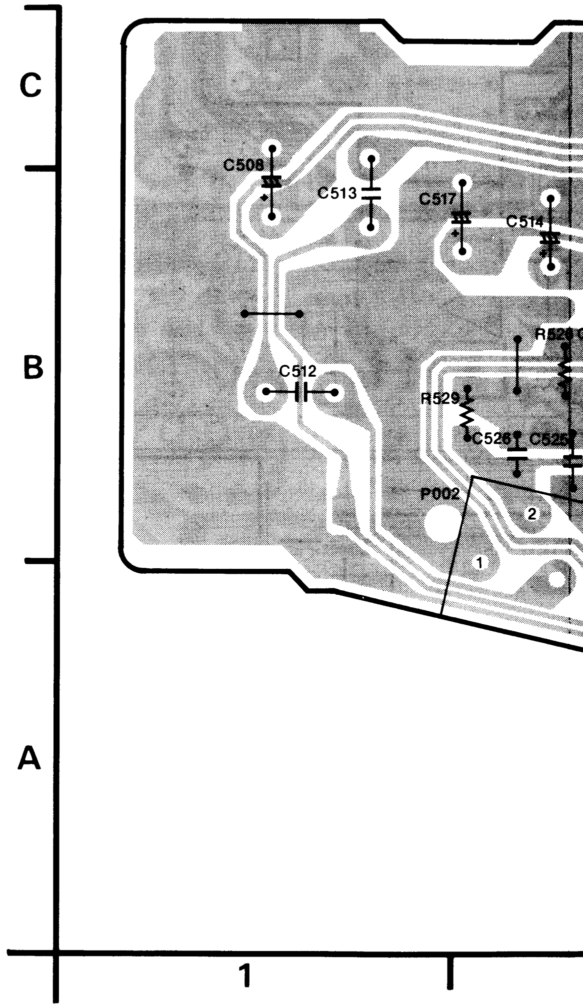

20 19 18 17 16 15 14 13 12 11
BIAS
BUFF
(TEST(H):ON)
SW
(EE(H):ON)
VCC/2
SW
BUFF
(P.B:ON)
VCC/2
1 2 3 4 5 6 7 8 9 10

INPUT/OUTPUT C.B.A.	
Transistor	
Q3801	C-2
Q3802	A-2
Q3803	A-3
Integrated Circuit	
IC3801	B-3
IC3802	B-2

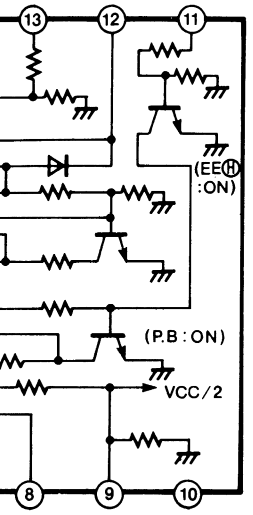
ADDRESS INFORMATION


C
B
A
1
2
3
4
21 PIN JACK
C3806
Q3801
E C B
R3805
C3813
C3822
L3803
C3823
R3803
R3820
D3801
C3802
R3806
R3814
R3821
C3809
C3808
R3822
R3801
C3811
R3819
C3801
C3827
IC3801
C3810
C3819
C3814
J1
J3
R3808
C3815
R3807
IC3802
R3811
C3816
R3813
SW3801
J2
C3805
R3812
C3817
C3818
C3821
R3809
C3825
C3812
R3818
R3817
R3810
C3826
C3804
R3802
AUDIO IN
VIDEO IN
J2
C3824
L3805
Q3803
R3816
Q3802
R3824
C3803
R3815
R3825
L3801
L3804
L3802
L3806
R3804
J1
R3826
PK3801
J3
C3807
PK3802
1 7
8 15

3-19. HEAD AMP C.B.A. (VEP0


C
B
A
1
C508
C513
C517
C514
C512
R528
R529
C526
C525
P002

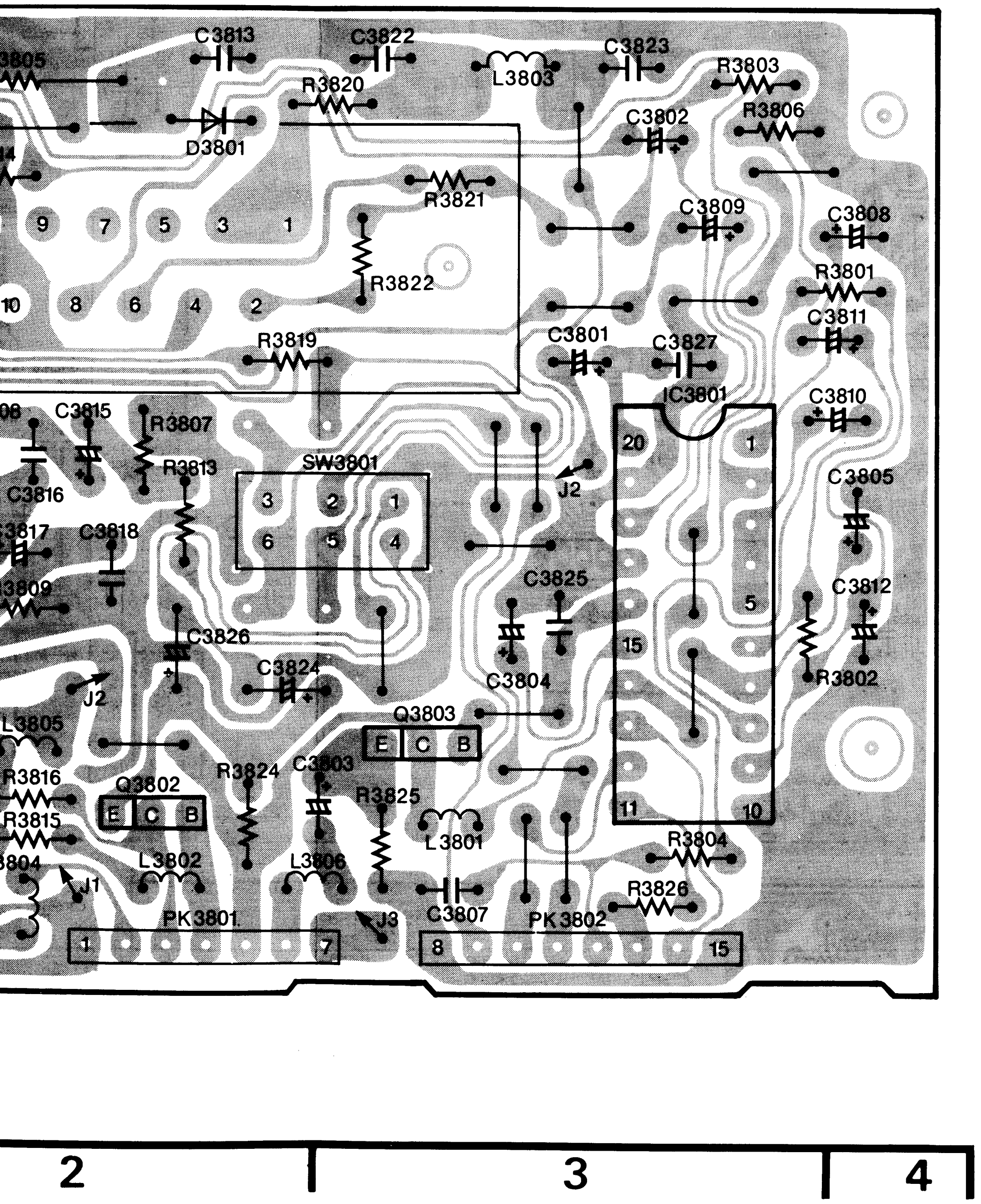
494A: NV-G45EG)



13
12
11
(EEⓇ :ON)
(P.B : ON)
VCC/2
8
9
10

INPUT/OUTPUT C.B.A.	
Transistor	
Q3801 Q3802 Q3803	C-2 A-2 A-3
Integrated Circuit	
IC3801 IC3802	B-3 B-2

ADDRESS INFORMATION

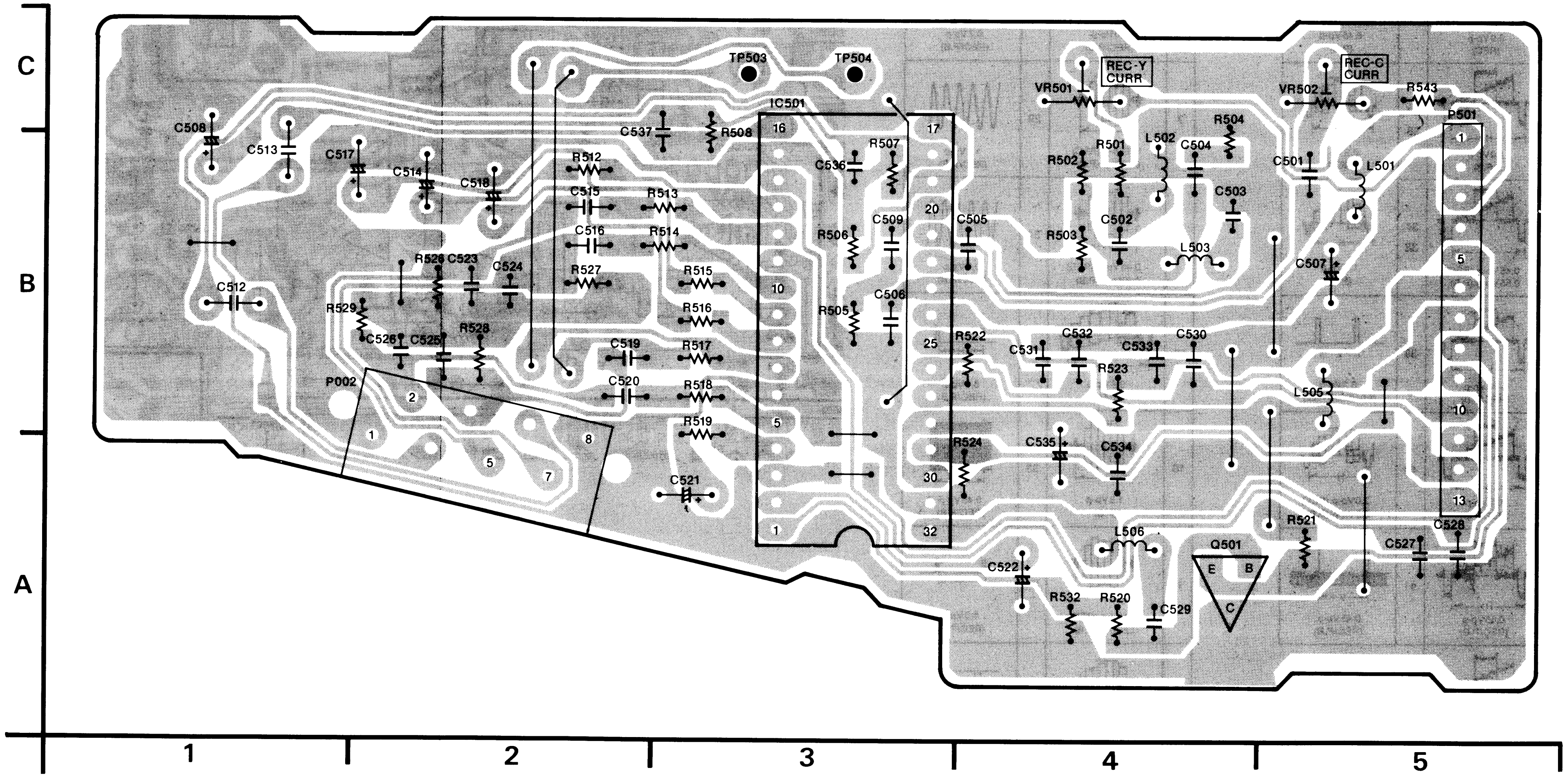


C3813
C3822
C3823
R3803
R3820
L3803
C3802
R3806
D3801
R3821
C3809
C3808
R3822
R3801
C3811
R3819
C3801
C3827
IC3801
C3810
C3815
R3807
R3813
SW3801
J2
C3805
C3816
C3818
C3825
C3812
C3826
C3804
R3802
C3824
Q3803
E C B
L3805
R3816
Q3802
R3824
C3803
R3825
R3815
L3801
R3804
L3802
L3806
J1
R3826
PK3801
J3
C3807
PK3802
2
3
4

3-19. HEAD AMP C.B.A. (VEP05120B)

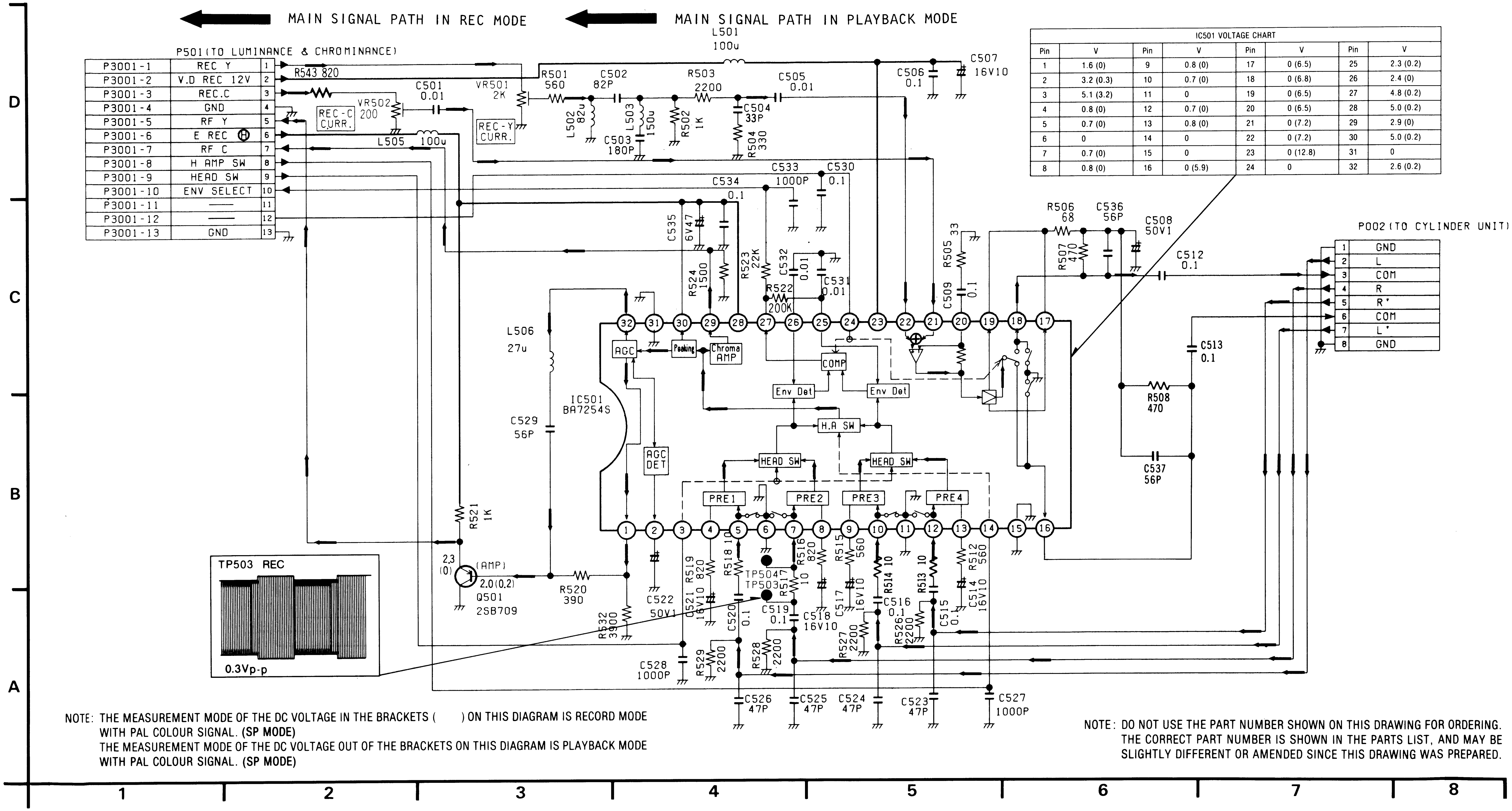
HEAD AMP C.B.A.	
Transistor	
Q501	A-4
Integrated Circuit	
IC501	C-3
Test Point	
TP503 TP504	C-3 C-3
Adjustment	
VR501 VR502	C-4 C-5
Connector	
P002 P501	B-2 C-5

ADDRESS INFORMATION



C
B
A
TP503
TP504
IC501
REC-Y CURR
VR501
REC-C CURR
VR502
R543
P501
C508
C513
C517
C514
C518
R512
C537
R508
R507
C536
R501
R502
L502
C504
R504
C501
L501
C515
R513
C516
R514
R506
C509
C505
R503
C502
C503
L503
C507
C512
R526
C523
C524
R527
R515
R516
R505
C506
R529
C526
C525
R528
C519
R517
R522
C531
C532
C533
C530
R523
P002
C520
R518
R519
L505
R524
C535
C534
C521
R521
C528
C527
L506
Q501
E B C
C522
R532
R520
C529
1
2
3
4
5

3-20. HEAD AMP SCHEMATIC DIAGRAM

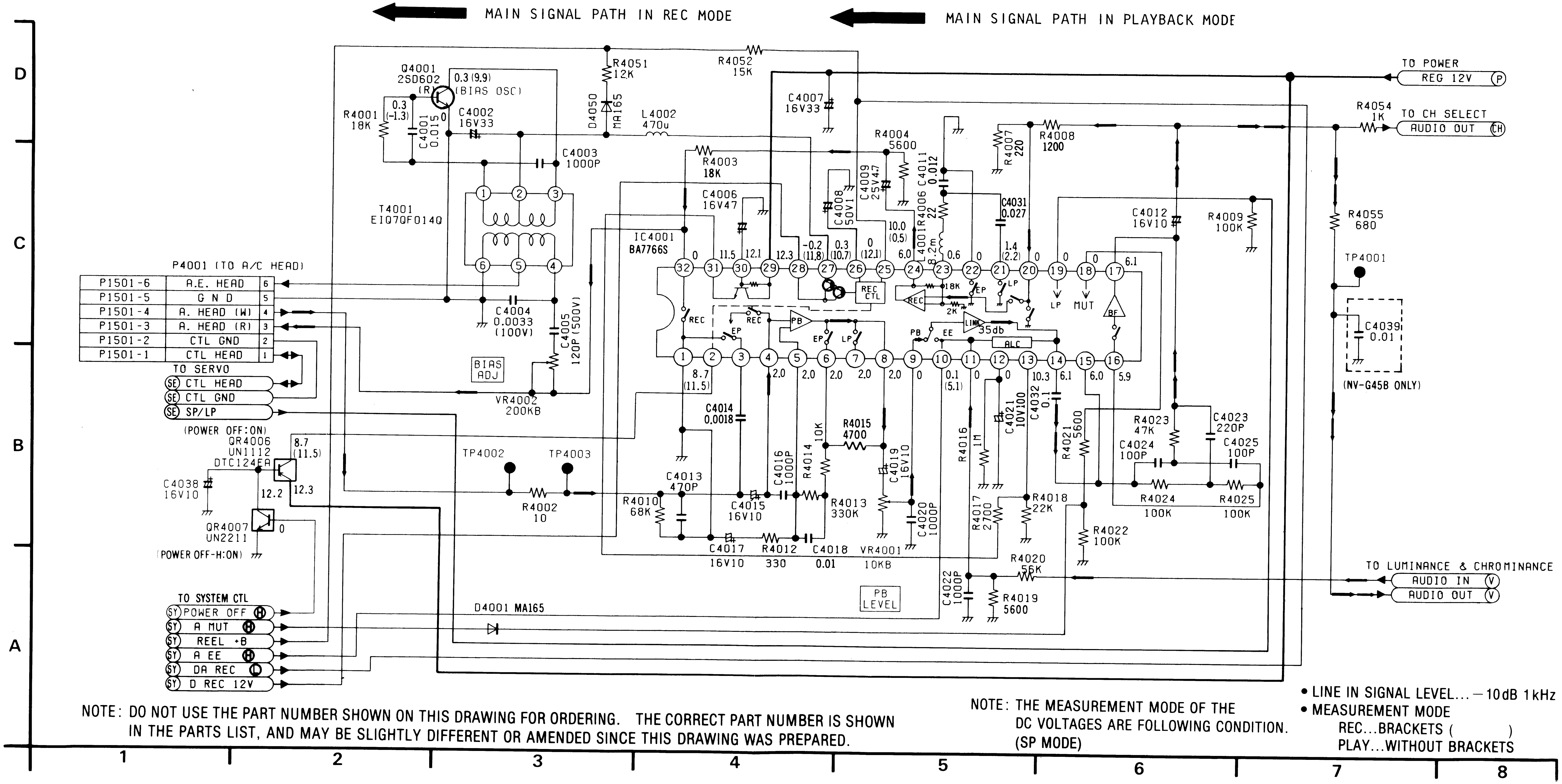

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
P501 (TO LUMINANCE & CHROMINANCE)
P3001-1 REC Y 1
P3001-2 V.D REC 12V 2
P3001-3 REC.C 3
P3001-4 GND 4
P3001-5 RF Y 5
P3001-6 E REC 6
P3001-7 RF C 7
P3001-8 H AMP SW 8
P3001-9 HEAD SW 9
P3001-10 ENV SELECT 10
P3001-11 11
P3001-12 12
P3001-13 GND 13
R543 820
REC-C CURR.
VR502 200
C501 0.01
VR501 2K
REC-Y CURR.
L505 100u
L501 100u
R501 560
C502 82P
L502 82u
L503 150u
C503 180P
R502 1K
R503 2200
C504 33P
R504 330
C505 0.01
C506 0.1
C507 16V10
C533 1000P
C530 0.1
C534 0.1
C535 6V47
R524 1500
R523 22K
C532 0.01
R522 200K
C531 0.01
R505 33
C509 0.1
R506 68
C536 56P
C508 50V1
R507 470
C512 0.1
C513 0.1
R508 470
C537 56P
P002 (TO CYLINDER UNIT)
1 GND
2 L
3 COM
4 R
5 R'
6 COM
7 L'
8 GND
L506 27u
IC501 BA7254S
C529 56P
AGC
Peaking
Chroma AMP
COMP
Env Det
Env Det
H.A SW
HEAD SW
HEAD SW
AGC DET
PRE1
PRE2
PRE3
PRE4
R521 1K
2.3 (0)
(AMP)
2.0 (0.2)
Q501 2SB709
R520 390
R532 3900
C522 50V1
C521 16V10
R519 820
R518 10
C520 0.1
TP504
TP503
R517 10
R516 820
C519 0.1
C518 16V10
R515 560
C517 16V10
R514 10
C516 0.1
R513 10
R512 560
C515 0.1
C514 16V10
R527 2200
R526 2200
R529 2200
R528 2200
C528 1000P
C526 47P
C525 47P
C524 47P
C523 47P
C527 1000P
TP503 REC
0.3Vp-p
D
C
B
A
1
2
3
4
5
6
7
8

IC501 VOLTAGE CHART							
Pin	V	Pin	V	Pin	V	Pin	V
1	1.6 (0)	9	0.8 (0)	17	0 (6.5)	25	2.3 (0.2)
2	3.2 (0.3)	10	0.7 (0)	18	0 (6.8)	26	2.4 (0)
3	5.1 (3.2)	11	0	19	0 (6.5)	27	4.8 (0.2)
4	0.8 (0)	12	0.7 (0)	20	0 (6.5)	28	5.0 (0.2)
5	0.7 (0)	13	0.8 (0)	21	0 (7.2)	29	2.9 (0)
6	0	14	0	22	0 (7.2)	30	5.0 (0.2)
7	0.7 (0)	15	0	23	0 (12.8)	31	0
8	0.8 (0)	16	0 (5.9)	24	0	32	2.6 (0.2)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. **(SP MODE)**
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. **(SP MODE)**

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-21. AUDIO SCHEMATIC DIAGRAM


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
D
C
B
A
1
2
3
4
5
6
7
8
Q4001
2SD602
(R)
0.3 (9.9)
(BIAS OSC)
R4001
18K
0.3
(-1.3)
C4001
0.015
0
C4002
16V33
C4003
1000P
R4051
12K
D4050
MA165
L4002
470u
R4052
15K
T4001
EI070F0140
C4004
0.0033
(100V)
C4005
120P (500V)
BIAS ADJ
VR4002
200KB
P4001 (TO A/C HEAD)
P1501-6
A.E. HEAD
P1501-5
G N D
P1501-4
A. HEAD (W)
P1501-3
A. HEAD (R)
P1501-2
CTL GND
P1501-1
CTL HEAD
TO SERVO
SE CTL HEAD
SE CTL GND
SE SP/LP
(POWER OFF:ON)
QR4006
UN1112
DTC124EA
8.7
(11.5)
12.2
12.3
C4038
16V10
QR4007
UN2211
0
(POWER OFF-H:ON)
TO SYSTEM CTL
SY POWER OFF H
SY A MUT H
SY REEL +B
SY A EE H
SY DA REC L
SY D REC 12V
D4001 MA165
TP4002
TP4003
R4002
10
IC4001
BA7766S
C4007
16V33
R4003
18K
C4006
16V47
R4004
5600
C4008
50V1
C4009
25V47
R4006 22
C4011
0.012
L4001
8.2m
R4007
220
R4008
1200
C4031
0.027
C4012
16V10
R4009
100K
REC CTL
REC
EP
LP
PB
EE
LINE
35db
ALC
MUT
BF
18K
2K
C4013
470P
R4010
68K
C4014
0.0018
C4015
16V10
C4016
1000P
R4014
10K
R4015
4700
R4013
330K
C4019
16V10
C4020
1000P
C4017
16V10
R4012
330
C4018
0.01
VR4001
10KB
PB LEVEL
R4016
1M
C4021
10V100
C4032
0.1
R4017
2700
R4018
22K
R4021
5600
R4022
100K
R4020
56K
C4022
100P
R4019
5600
R4023
47K
C4023
220P
C4024
100P
C4025
100P
R4024
100K
R4025
100K
TO POWER
REG 12V P
R4054
1K
TO CH SELECT
AUDIO OUT CH
R4055
680
TP4001
C4039
0.01
(NV-G45B ONLY)
TO LUMINANCE & CHROMINANCE
AUDIO IN V
AUDIO OUT V
0
11.5
12.1
12.3
-0.2
(11.8)
0.3
(10.7)
0
(12.1)
10.0
(0.5)
6.0
0.6
0
1.4
(2.2)
0
0
0
6.1
8.7
(11.5)
2.0
2.0
2.0
2.0
2.0
0
0.1
(5.1)
0
10.3
6.1
6.0
5.9

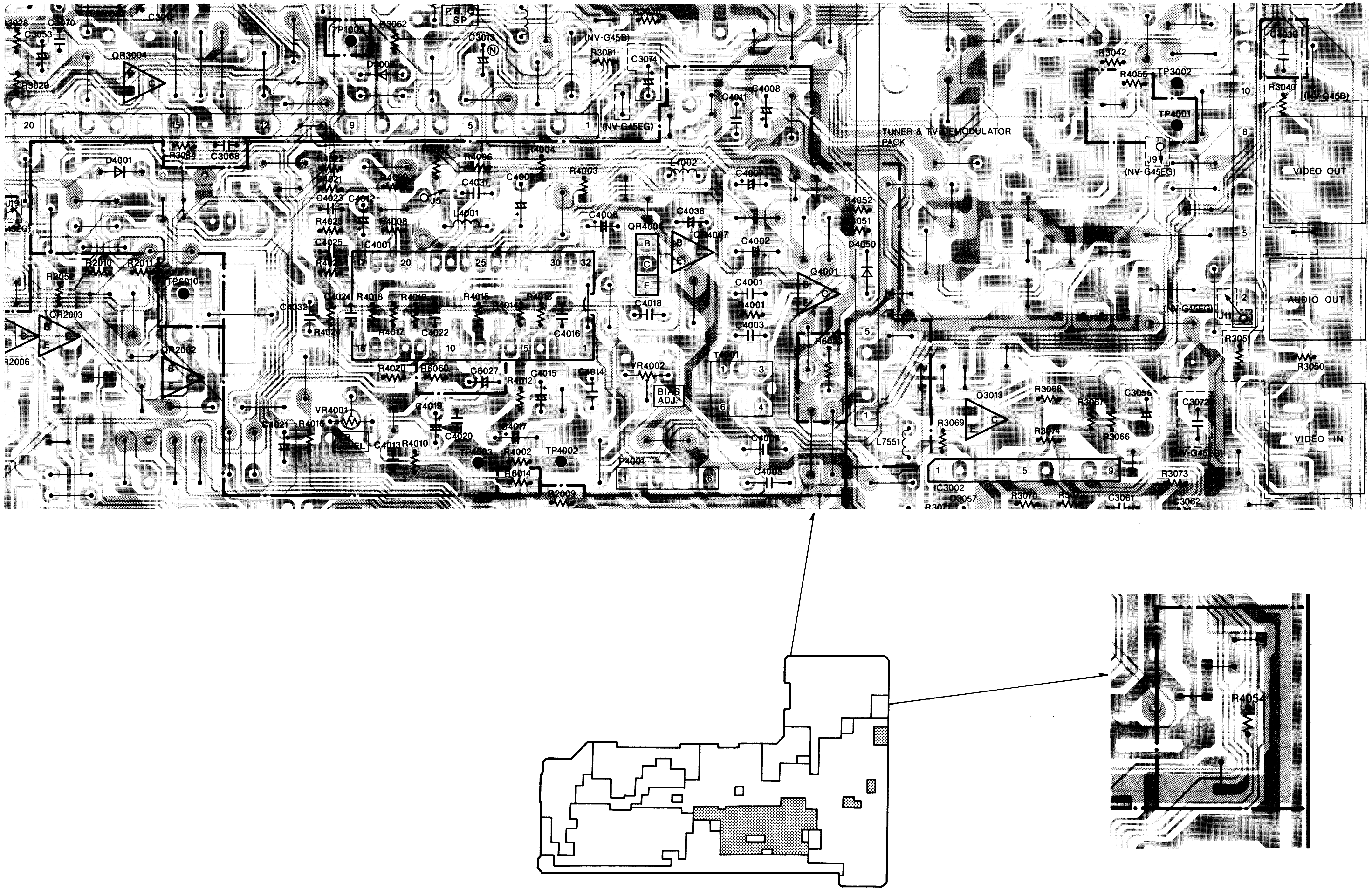
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGES ARE FOLLOWING CONDITION. (SP MODE)

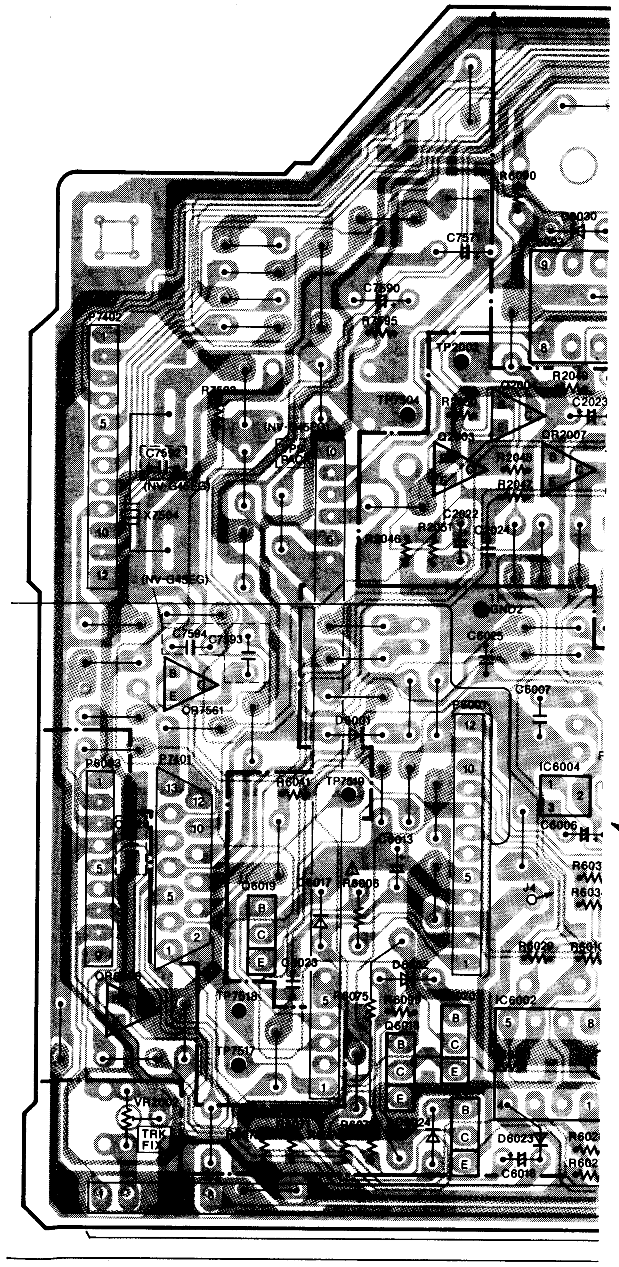
- LINE IN SIGNAL LEVEL... −10dB 1kHz
- MEASUREMENT MODE
  REC...BRACKETS ( )
  PLAY...WITHOUT BRACKETS

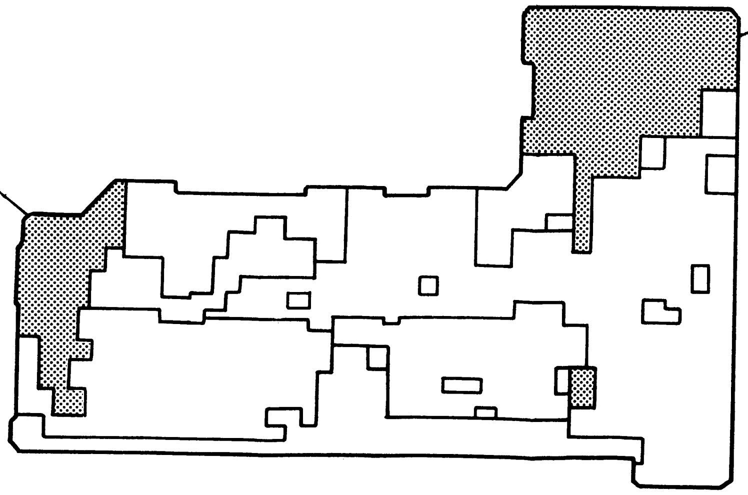
Back Page:
HEAD AMP Section

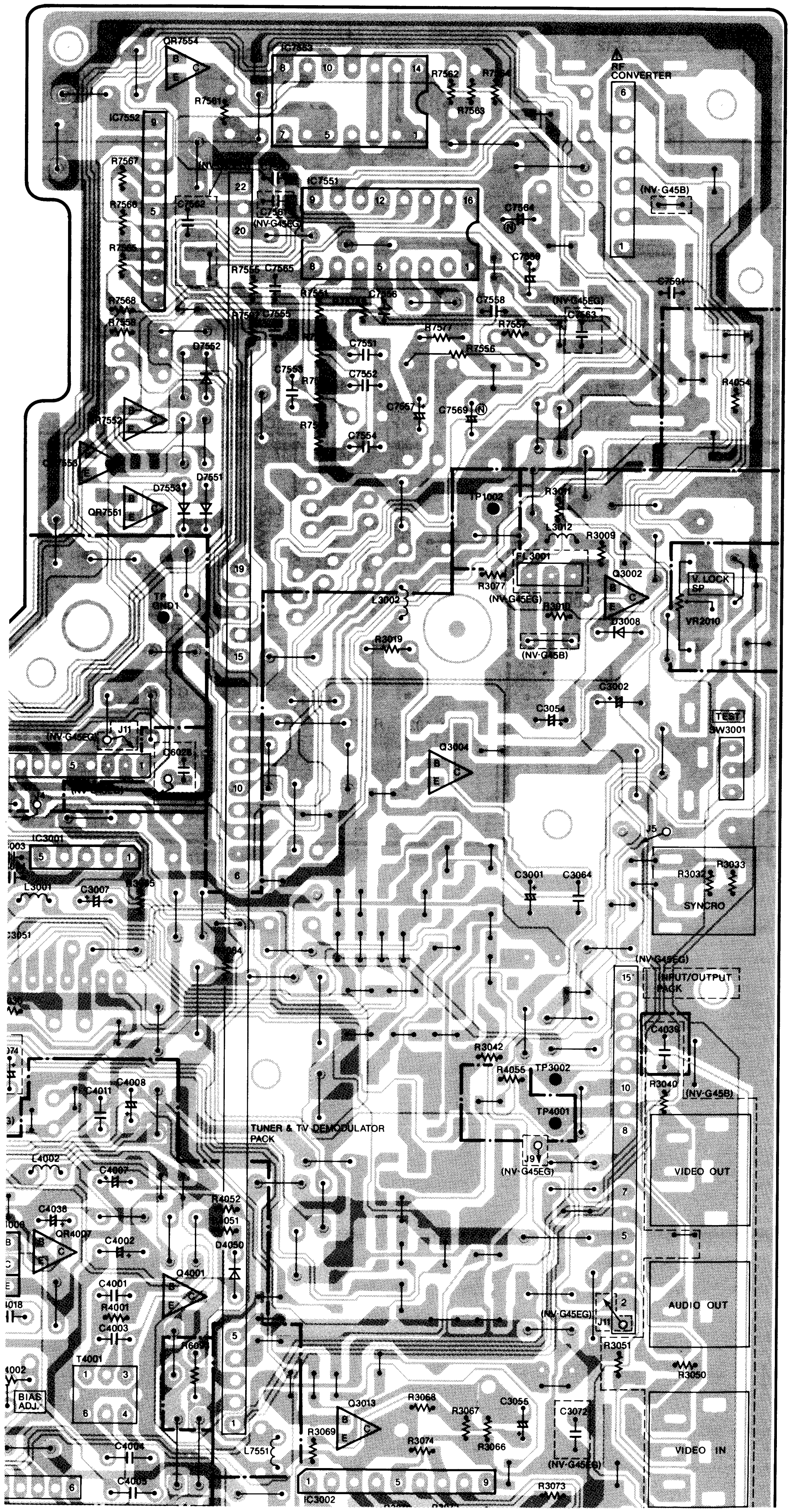
3-22. AUDIO Section In Main C.B.A. (VEP03493AT: NV-G45EG) (VEP03493AG: NV-G45B)


C3053
C3070
C3042
QR3004
R3029
TP1009
R3062
D3009
P.B. C SP
C3013
R3080
(NV-G45B)
R3081
C3074
(NV-G45EG)
C4011
C4008
R3042
R4055
TP3002
TP4001
C4039
R3040
(NV-G45B)
J9
(NV-G45EG)
TUNER & TV DEMODULATOR PACK
VIDEO OUT
AUDIO OUT
VIDEO IN
20
15
12
9
5
1
10
8
7
5
2
R3084
C3068
D4001
R4022
R4021
C4023
C4012
R4023
C4025
R4025
R4007
R4006
R4009
R4008
R4004
R4003
C4031
C4009
J5
L4001
L4002
C4007
C4006
C4038
QR4006
QR4007
C4002
R4052
R4051
D4050
IC4001
17
20
25
30
32
18
10
5
1
R2010
R2011
R2052
TP6010
QR2003
QR2002
R2006
C4032
C4024
R4018
R4019
R4015
R4014
R4013
R4024
R4017
C4022
C4016
C4018
C4001
R4001
C4003
Q4001
R6053
(NV-G45EG)
J11
R3051
R3050
R4020
R6060
C6027
R4012
C4015
C4014
VR4002
BIAS ADJ.
T4001
1
3
6
4
Q3013
R3068
R3067
C3056
C3072
R3069
R3074
R3066
(NV-G45EG)
VR4001
C4021
R4016
P.B. LEVEL
C4013
R4010
C4019
C4020
C4017
TP4003
R4002
TP4002
R6014
R2009
P4001
1
6
C4004
C4005
L7551
IC3002
1
5
9
C3057
R3071
R3070
R3072
C3061
C3062
R3073
R4054

3-23. CH SELECT Section In Main C.B.A.(VEP03493AT: NV-G45EG) (VEP03493AG: NV-G45B)

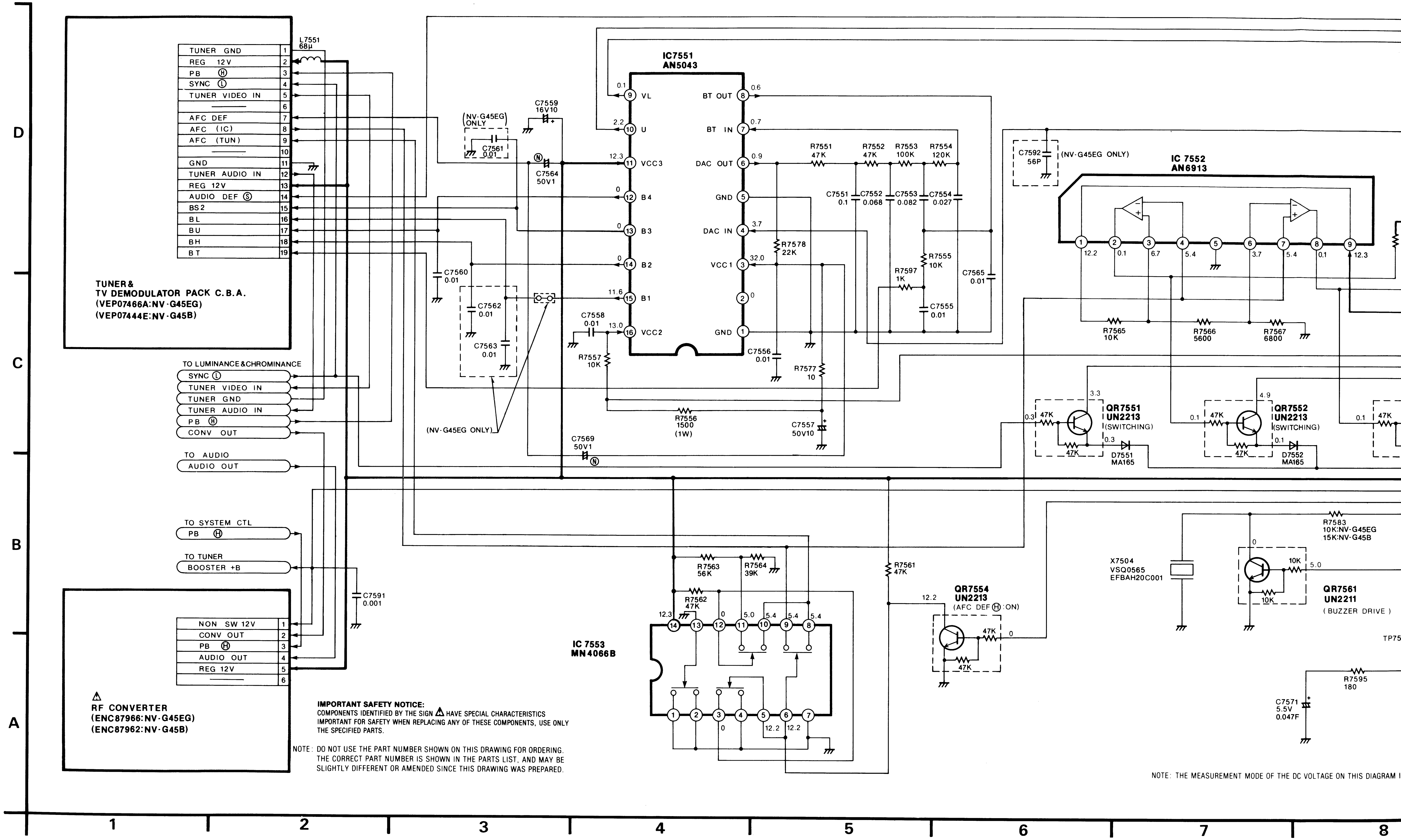

IC6004
IC6002
TP7504
TP2001
TRK FIX
(NV-G45EG)
QR7561
P8003
R6040
C6007
C6025
GND2
J4




RF CONVERTER
QR7554
IC7552
IC7551
(NV-G45B)
(NV-G45EG)
QR7551
TP1002
FL3001
Q3002
V. LOCK SP
VR2010
D3008
TEST SW3001
Q3004
IC3001
L3001
C3007
C3001
C3064
R3033
SYNCRO
INPUT/OUTPUT JACK
TP3002
TP4001
TUNER & TV DEMODULATOR PACK
VIDEO OUT
AUDIO OUT
VIDEO IN
QR4007
Q4001
T4001
BIAS ADJ.
Q3013
L7551
IC3002
J11
J9

Back Page:
AUDIO Section

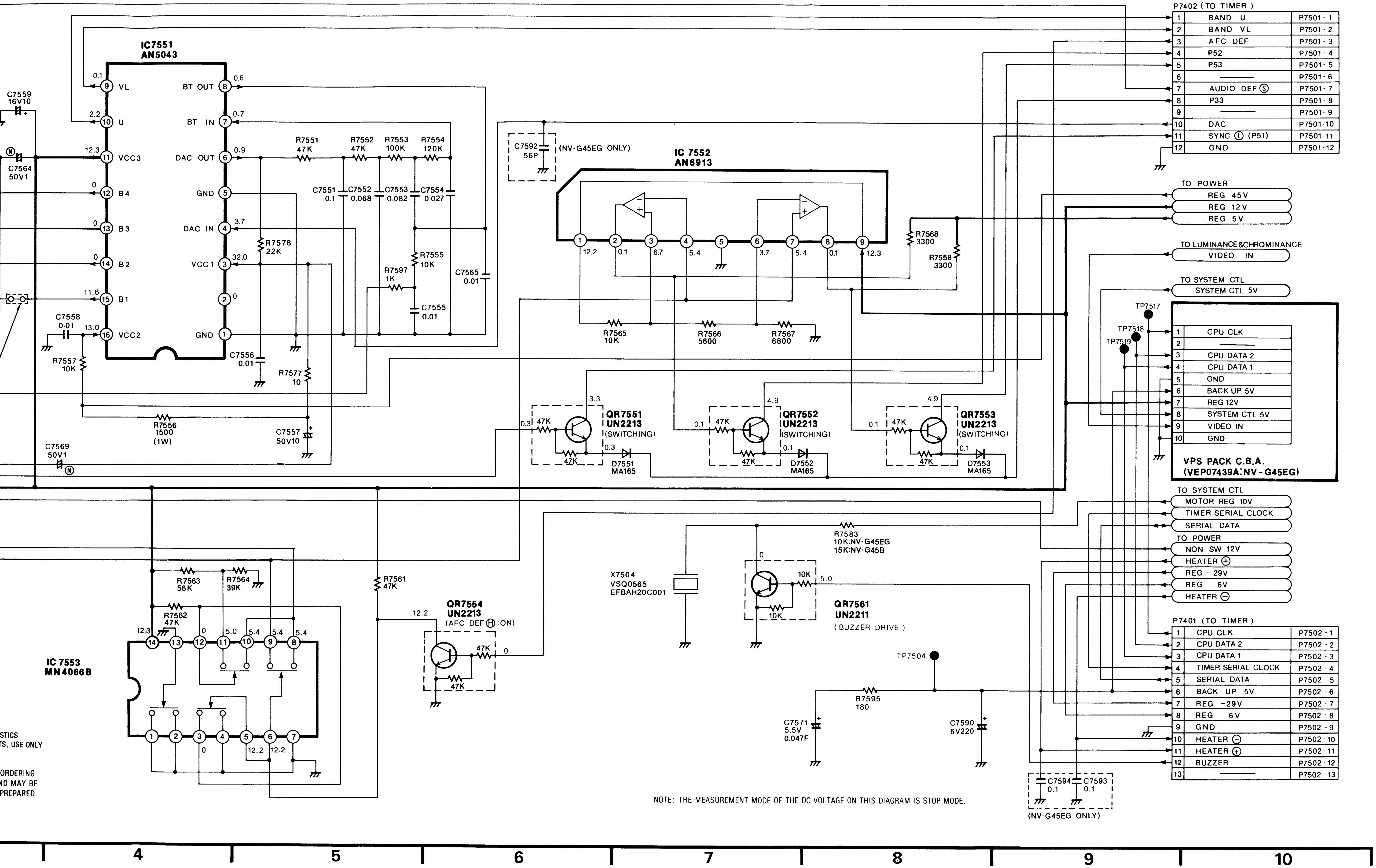
3-24. CH SELECT SCHEMATIC DIAGRAM


TUNER & TV DEMODULATOR PACK C.B.A. (VEP07466A:NV-G45EG) (VEP07444E:NV-G45B)
TUNER GND
REG 12V
PB Ⓗ
SYNC Ⓛ
TUNER VIDEO IN
AFC DEF
AFC (IC)
AFC (TUN)
GND
TUNER AUDIO IN
REG 12V
AUDIO DEF Ⓢ
BS2
BL
BU
BH
BT
L7551 68μ
IC7551 AN5043
VL
U
VCC3
B4
B3
B2
B1
VCC2
BT OUT
BT IN
DAC OUT
GND
DAC IN
VCC1
C7559 16V10
(NV-G45EG ONLY)
C7561 0.01
C7564 50V1
C7560 0.01
C7562 0.01
C7563 0.01
C7558 0.01
R7557 10K
R7556 1500 (1W)
C7557 50V10
C7569 50V1
C7556 0.01
R7577 10
R7578 22K
R7551 47K
R7552 47K
R7553 100K
R7554 120K
C7551 0.1
C7552 0.068
C7553 0.082
C7554 0.027
R7555 10K
R7597 1K
C7555 0.01
C7565 0.01
C7592 56P
(NV-G45EG ONLY)
IC 7552 AN6913
R7565 10K
R7566 5600
R7567 6800
QR7551 UN2213 (SWITCHING)
D7551 MA165
QR7552 UN2213 (SWITCHING)
D7552 MA165
TO LUMINANCE & CHROMINANCE
SYNC Ⓛ
TUNER VIDEO IN
TUNER GND
TUNER AUDIO IN
PB Ⓗ
CONV OUT
(NV-G45EG ONLY)
TO AUDIO
AUDIO OUT
TO SYSTEM CTL
PB Ⓗ
TO TUNER
BOOSTER +B
C7591 0.001
RF CONVERTER (ENC87966:NV-G45EG) (ENC87962:NV-G45B)
NON SW 12V
CONV OUT
PB Ⓗ
AUDIO OUT
REG 12V
IC 7553 MN4066B
R7563 56K
R7564 39K
R7562 47K
R7561 47K
QR7554 UN2213 (AFC DEF Ⓗ:ON)
X7504 VSQ0565 EFBAH20C001
QR7561 UN2211 (BUZZER DRIVE)
R7583 10K:NV-G45EG 15K:NV-G45B
R7595 180
C7571 5.5V 0.047F
TP75
D
C
B
A
1
2
3
4
5
6
7
8

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM I


IC7551
AN5043
VL
U
VCC3
B4
B3
B2
B1
VCC2
BT OUT
BT IN
DAC OUT
GND
DAC IN
VCC1
GND
C7559 16V10
C7564 50V1
C7558 0.01
R7557 10K
R7556 1500 (1W)
C7569 50V1
R7551 47K
R7552 47K
R7553 100K
R7554 120K
C7551 0.1
C7552 0.068
C7553 0.082
C7554 0.027
R7578 22K
R7555 10K
R7597 1K
C7555 0.01
C7565 0.01
C7556 0.01
R7577 10
C7557 50V10
C7592 56P
(NV·G45EG ONLY)
IC 7552
AN6913
R7568 3300
R7558 3300
R7565 10K
R7566 5600
R7567 6800
QR7551 UN2213 (SWITCHING)
QR7552 UN2213 (SWITCHING)
QR7553 UN2213 (SWITCHING)
D7551 MA165
D7552 MA165
D7553 MA165
IC 7553
MN4066B
R7563 56K
R7564 39K
R7562 47K
R7561 47K
QR7554 UN2213 (AFC DEF Ⓗ:ON)
X7504 VSQ0565 EFBAH20C001
R7583 10K:NV·G45EG 15K:NV·G45B
QR7561 UN2211 (BUZZER DRIVE)
TP7504
R7595 180
C7571 5.5V 0.047F
C7590 6V220
C7594 0.1
C7593 0.1
(NV·G45EG ONLY)
P7402 (TO TIMER)
1 BAND U P7501·1
2 BAND VL P7501·2
3 AFC DEF P7501·3
4 P52 P7501·4
5 P53 P7501·5
6 P7501·6
7 AUDIO DEF Ⓢ P7501·7
8 P33 P7501·8
9 P7501·9
10 DAC P7501·10
11 SYNC Ⓛ (P51) P7501·11
12 GND P7501·12
TO POWER
REG 45V
REG 12V
REG 5V
TO LUMINANCE&CHROMINANCE
VIDEO IN
TO SYSTEM CTL
SYSTEM CTL 5V
TP7517
TP7518
TP7519
1 CPU CLK
2
3 CPU DATA 2
4 CPU DATA 1
5 GND
6 BACK UP 5V
7 REG 12V
8 SYSTEM CTL 5V
9 VIDEO IN
10 GND
VPS PACK C.B.A.
(VEP07439A:NV-G45EG)
TO SYSTEM CTL
MOTOR REG 10V
TIMER SERIAL CLOCK
SERIAL DATA
TO POWER
NON SW 12V
HEATER ⊕
REG −29V
REG 6V
HEATER ⊖
P7401 (TO TIMER)
1 CPU CLK P7502·1
2 CPU DATA 2 P7502·2
3 CPU DATA 1 P7502·3
4 TIMER SERIAL CLOCK P7502·4
5 SERIAL DATA P7502·5
6 BACK UP 5V P7502·6
7 REG −29V P7502·7
8 REG 6V P7502·8
9 GND P7502·9
10 HEATER ⊖ P7502·10
11 HEATER ⊕ P7502·11
12 BUZZER P7502·12
13 P7502·13
4
5
6
7
8
9
10

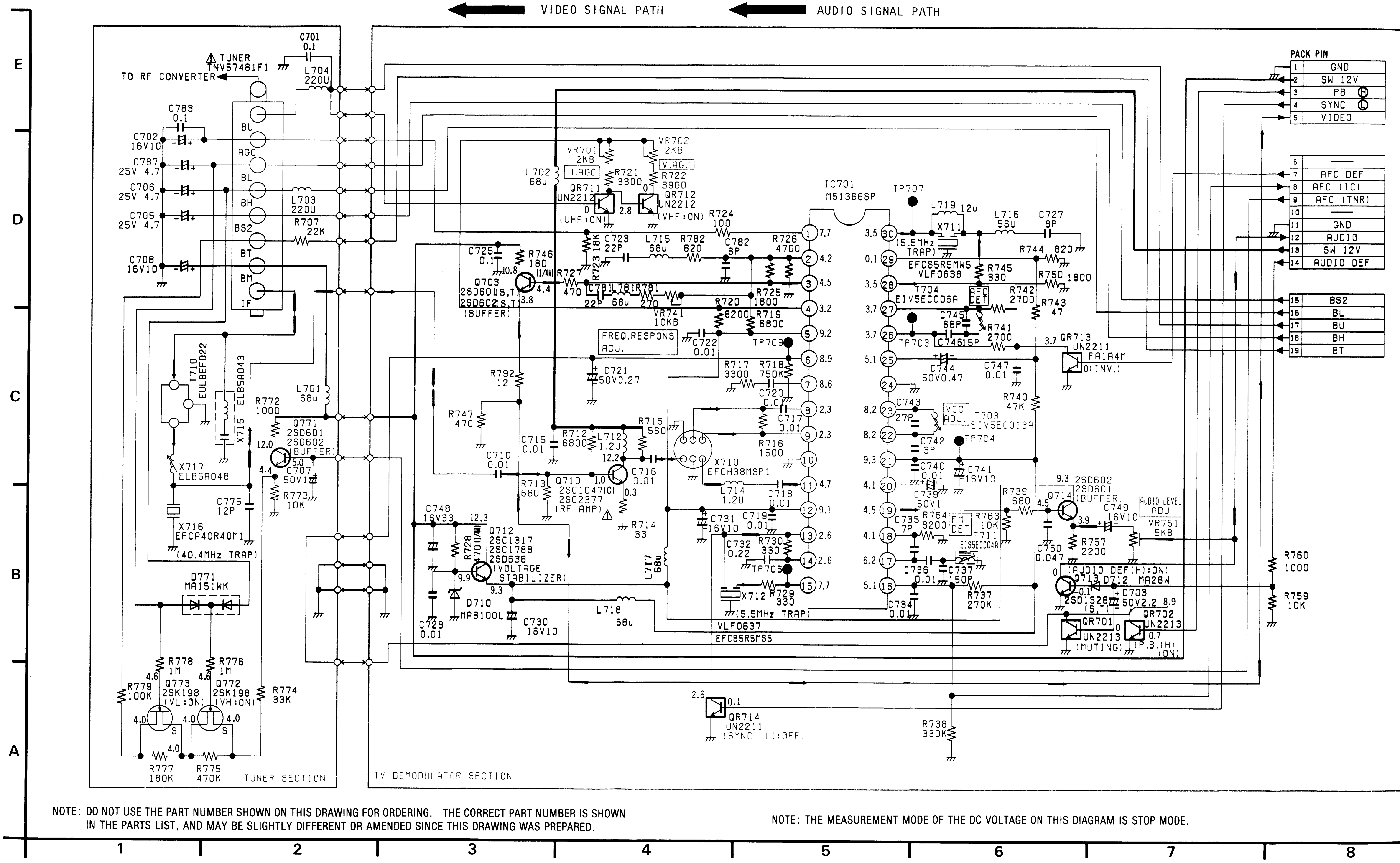
STICS
TS, USE ONLY

ORDERING.
ND MAY BE
PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

Next Page:
TUNER & TV DEMODULATOR PACK Section

3-25. TUNER & TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-G45EG)

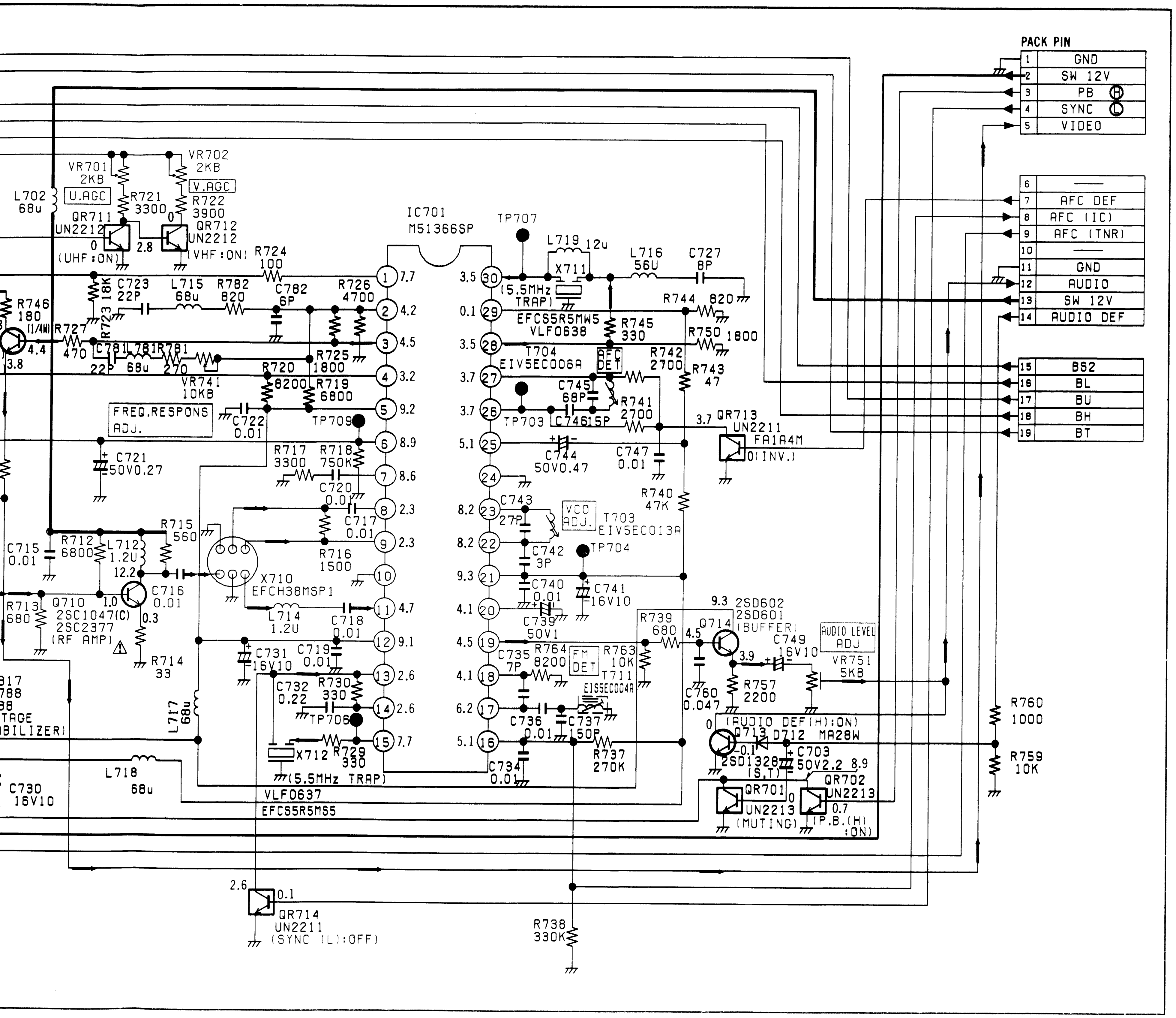

VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
E
D
C
B
A
TUNER TNV57481F1
TO RF CONVERTER
C701 0.1
L704 220U
C783 0.1
C702 16V10
C787 25V 4.7
C706 25V 4.7
C705 25V 4.7
C708 16V10
BU
AGC
BL
BH
BS2
BT
BM
IF
L703 220U
R707 22K
T710 EULBEF022
X715 ELB5A043
X717 ELB5A048
C775 12P
X716 EFCA40R40M1 (40.4MHz TRAP)
L701 68u
R772 1000
Q771 2SD601 2SD602 (BUFFER)
C707 50V1
R773 10K
D771 MA151WK
R778 1M
R776 1M
Q773 2SK198 (VL:ON)
Q772 2SK198 (VH:ON)
R779 100K
R774 33K
R777 180K
R775 470K
TUNER SECTION
TV DEMODULATOR SECTION
L702 68u
VR701 2KB
U.AGC
R721 3300
QR711 UN2212 (UHF:ON)
VR702 2KB
V.AGC
R722 3900
QR712 UN2212 (VHF:ON)
R724 100
C725 0.1
R746 180
R727 470
Q703 2SD601S,T 2SD602S,T (BUFFER)
R723 18K
C723 22P
L715 68u
R782 820
C782 6P
R726 4700
C781 22P
L781 68u
R781 270
VR741 10KB
R725 1800
R720 8200
R719 6800
FREQ.RESPONS ADJ.
C722 0.01
C721 50V0.27
R792 12
R747 470
C715 0.01
C710 0.01
R712 6800
L712 1.2U
R715 560
Q710 2SC1047(C) 2SC2377 (RF AMP)
R713 680
C716 0.01
R714 33
X710 EFCH38MSP1
L714 1.2U
C718 0.01
R717 3300
R718 750K
C720 0.01
C717 0.01
R716 1500
C731 16V10
C719 0.01
C732 0.22
R730 330
TP705
R729 330
X712 (5.5MHz TRAP)
VLF0637
EFCS5R5MS5
C748 16V33
Q712 2SC1317 2SC1788 2SD638 (VOLTAGE STABILIZER)
R728 470(1/4W)
D710 MA3100L
C728 0.01
C730 16V10
L717 68u
L718 68u
IC701 M51366SP
TP707
TP709
L719 12u
X711 (5.5MHz TRAP)
EFCS5R5MW5 VLF0638
L716 56U
C727 8P
R744 820
R745 330
R750 1800
T704 EIV5EC006A
AFC DET
R742 2700
R743 47
C745 68P
R741 2700
TP703
C746 15P
QR713 UN2211 FA1A4M (INV.)
C744 50V0.47
C747 0.01
R740 47K
C743 27P
VCO ADJ.
T703 EIV5EC013A
C742 3P
TP704
C740 0.01
C741 16V10
C739 50V1
C735 7P
R764 8200
FM DET
R763 10K
T711 EI55EC004A
C736 0.01
C737 150P
C734 0.01
R737 270K
R739 680
Q714 2SD602 2SD601 (BUFFER)
C749 16V10
AUDIO LEVEL ADJ
VR751 5KB
R757 2200
C760 0.047
(AUDIO DEF(H):ON)
Q713 2SD1328 (S,T)
D712 MA28W
C703 50V2.2
QR701 UN2213 (MUTING)
QR702 UN2213 (P.B.(H):ON)
QR714 UN2211 (SYNC (L):OFF)
R738 330K
R760 1000
R759 10K
PACK PIN
1 GND
2 SW 12V
3 PB Ⓗ
4 SYNC Ⓛ
5 VIDEO
6 —
7 AFC DEF
8 AFC (IC)
9 AFC (TNR)
10 —
11 GND
12 AUDIO
13 SW 12V
14 AUDIO DEF
15 BS2
16 BL
17 BU
18 BH
19 BT
1
2
3
4
5
6
7
8

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

IAGRAM (NV-G45EG)

■ VIDEO SIGNAL PATH ◀━━ AUDIO SIGNAL PATH



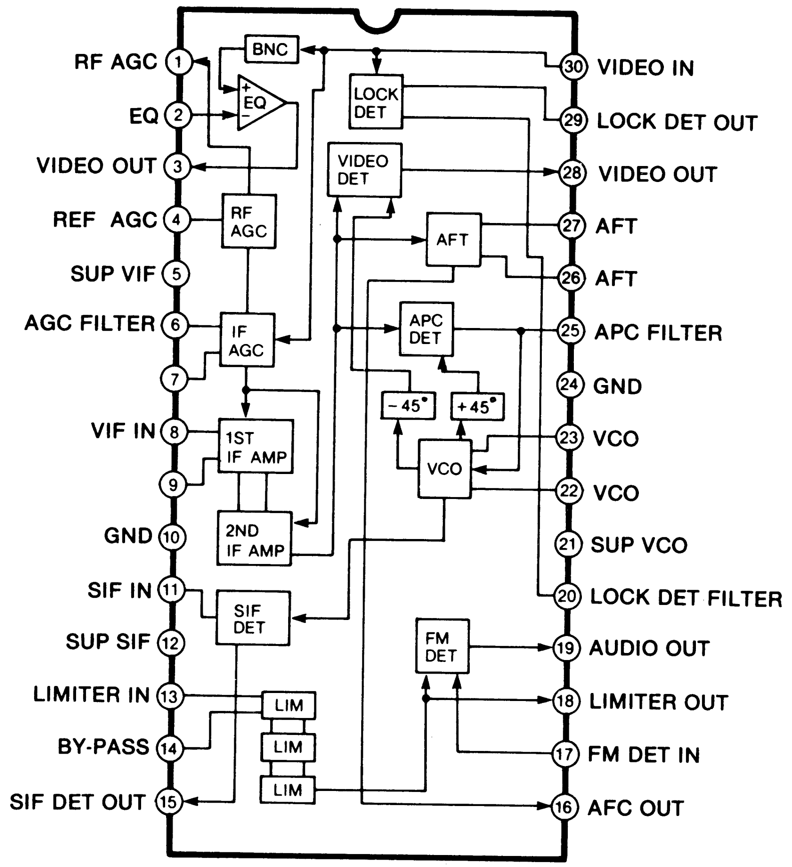
PACK PIN
1 GND
2 SW 12V
3 PB Ⓗ
4 SYNC Ⓛ
5 VIDEO
6 —
7 AFC DEF
8 AFC (IC)
9 AFC (TNR)
10 —
11 GND
12 AUDIO
13 SW 12V
14 AUDIO DEF
15 BS2
16 BL
17 BU
18 BH
19 BT
IC701
M51366SP
TP707
VR701 2KB
U.AGC
VR702 2KB
V.AGC
R721 3300
R722 3900
QR711 UN2212
QR712 UN2212
(UHF:ON)
(VHF:ON)
L702 68u
R724 100
C723 22P
L715 68u
R782 820
C782 6P
R726 4700
R723 18K
R746 180 (1/4W)
R727 470
C781 22P
L781 68u
R781 270
VR741 10KB
R720 8200
R725 1800
R719 6800
FREQ.RESPONS ADJ.
C722 0.01
TP709
C721 50V0.27
R717 3300
R718 750K
C720 0.01
C717 0.01
R715 560
R716 1500
X710 EFCH38MSP1
C715 0.01
R712 6800
L712 1.2U
Q710 2SC1047(C) 2SC2377 (RF AMP)
C716 0.01
R713 680
R714 33
L714 1.2U
C718 0.01
C731 16V10
C719 0.01
C732 0.22
R730 330
TP706
X712
R729 330
(5.5MHz TRAP)
VLF0637
EFCS5R5MS5
L717 68u
L718 68u
C730 16V10
QR714 UN2211 (SYNC (L):OFF)
L719 12u
X711 (5.5MHz TRAP)
L716 56U
C727 8P
R744 820
EFCS5R5MW5 VLF0638
R745 330
R750 1800
T704 EIV5EC006A
AFC DET
R742 2700
R743 47
C745 68P
R741 2700
TP703
C746 15P
QR713 UN2211
FA1A4M
0(INV.)
C744 50V0.47
C747 0.01
R740 47K
C743 27P
VCO ADJ.
T703 EIV5EC013A
TP704
C742 3P
C740 0.01
C741 16V10
C739 50V1
C735 7P
R764 8200
FM DET
R763 10K
T711 EISSEC004A
C736 0.01
C737 150P
C734 0.01
R737 270K
R739 680
Q714 2SD602 2SD601 (BUFFER)
C749 16V10
AUDIO LEVEL ADJ
VR751 5KB
R757 2200
C760 0.047
(AUDIO DEF(H):ON)
Q713 2SD1328 (S,T)
D712 MA28W
C703 50V2.2
QR701 UN2213 (MUTING)
QR702 UN2213 (P.B.(H):ON)
R760 1000
R759 10K
R738 330K

ART NUMBER IS SHOWN
WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

4 5 6 7 8

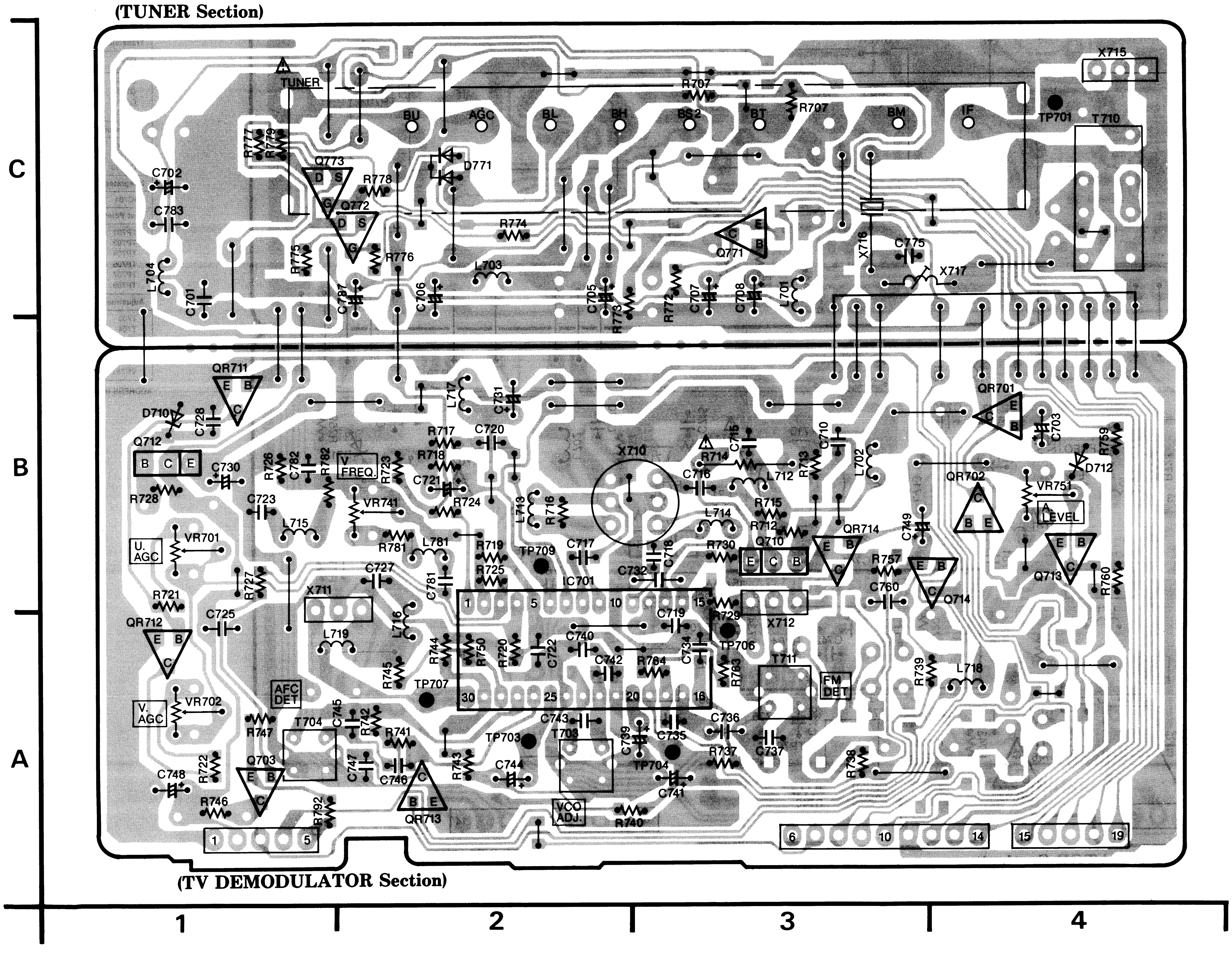
IC BLOCK
IC701 (M51366SP)



RF AGC ①
EQ ②
VIDEO OUT ③
REF AGC ④
SUP VIF ⑤
AGC FILTER ⑥
⑦
VIF IN ⑧
⑨
GND ⑩
SIF IN ⑪
SUP SIF ⑫
LIMITER IN ⑬
BY-PASS ⑭
SIF DET OUT ⑮
㉚ VIDEO IN
㉙ LOCK DET OUT
㉘ VIDEO OUT
㉗ AFT
㉖ AFT
㉕ APC FILTER
㉔ GND
㉓ VCO
㉒ VCO
㉑ SUP VCO
⑳ LOCK DET FILTER
⑲ AUDIO OUT
⑱ LIMITER OUT
⑰ FM DET IN
⑯ AFC OUT
BNC
EQ
LOCK DET
VIDEO DET
RF AGC
AFT
IF AGC
APC DET
-45°
+45°
1ST IF AMP
VCO
2ND IF AMP
SIF DET
FM DET
LIM
LIM
LIM

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

3-26. TUNER & TV DEMODULATOR PACK C.B.A. (VEP07466A: NV-G45EG)

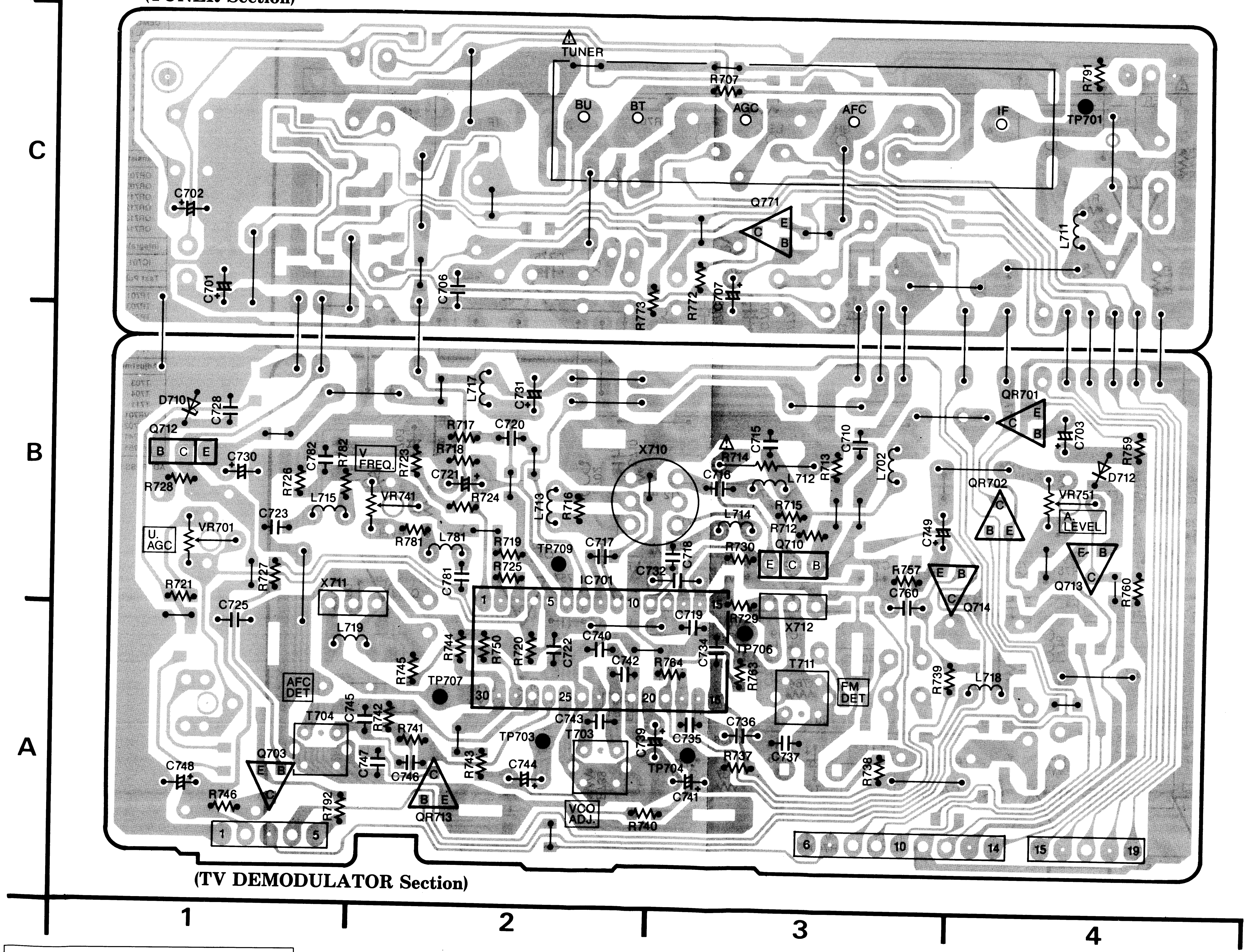

(TUNER Section)
(TV DEMODULATOR Section)
C
B
A
1
2
3
4
TUNER
BU
AGC
BL
BH
BS2
BT
BM
IF
X715
TP701
T710
R707
R777
R779
Q773
D771
R778
Q772
C702
C783
R774
R775
R776
L704
C701
C787
C706
L703
C705
R773
R772
C707
C708
L701
Q771
X716
C775
X717
QR711
D710
C728
Q712
B C E
C730
R728
R726
C782
R782
V FREQ.
R723
L717
C731
R717
C720
R718
C721
R724
VR741
C723
L715
R781
L781
U. AGC
VR701
R727
R721
C725
QR712
X711
C727
L716
C781
L719
R719
R725
TP709
C717
IC701
X710
L713
R716
C732
C718
R714
C715
C716
L712
R713
C710
L702
R715
L714
R712
R730
Q710
QR714
C749
R757
C760
Q714
QR701
C703
R759
D712
QR702
VR751
A LEVEL
Q713
R760
X712
R729
C719
TP706
R744
R750
R720
C722
C740
C742
R764
C734
R763
T711
FM DET
R739
L718
R745
TP707
AFC DET
V. AGC
VR702
R747
T704
C745
C742
R741
TP703
T703
C743
C739
C735
TP704
C736
C737
R737
C741
R738
R722
Q703
C747
C746
QR713
R743
C744
C748
R746
R792
VCO ADJ.
R740
1
5
6
10
14
15
19
30
25
20
16

TUNER & TV DEMODULATOR PACK C.B.A. (NV-G45EG)	
Transistor	
Q703	A-1
Q710	B-3
Q712	B-1
Q713	B-4
Q714	B-4
Q771	C-3
Q772	C-2
Q773	C-1
Transistor & Resistor	
QR701	B-4
QR702	B-4
QR711	B-1
QR712	A-1
QR713	A-2
QR714	B-3
Integrated Circuit	
IC701	B-2
Test Point	
TP701	C-4
TP703	A-2
TP704	A-3
TP706	A-3
TP707	A-2
TP709	B-2
Adjustment	
T703	A-2
T704	A-1
T711	A-3
VR701	B-1
VR702	A-1
VR741	B-2
VR751	B-4

ADDRESS INFORMATION

3-27. TUNER & TV DEMODULATOR PACK C.B.A. (VEP07444E: NV-G45B)

(TUNER Section)


C
B
A
1
2
3
4
TUNER
BU
BT
AGC
AFC
IF
R707
R791
TP701
C702
C701
C706
R773
R772
C707
Q771
C
E
B
L711
D710
C728
Q712
B C E
C730
R728
L717
C731
R717
C720
R718
C721
R724
C782
R782
V FREQ.
R723
R726
L715
VR741
C723
U. AGC
VR701
R781
L781
R727
R721
C725
X711
L719
C781
R719
R725
TP709
C717
L713
R716
X710
IC701
1
5
10
15
20
25
30
C732
C718
C714
R714
C715
L712
C716
R713
C710
L702
L714
R715
R712
R730
Q710
E C B
QR701
C703
R759
QR702
D712
VR751
A. LEVEL
C749
R757
C760
Q714
Q713
R760
R729
X712
C719
C740
C722
R720
R750
R744
R745
TP707
AFC DET
C742
R764
C734
R763
TP706
T711
FM DET
R739
L718
T704
C745
R742
R741
C743
TP703
T703
C739
C735
C736
C737
TP704
R737
C741
R738
C748
R746
Q703
C747
C746
QR713
R743
C744
R792
VCO ADJ.
R740
1
5
6
10
14
15
19
(TV DEMODULATOR Section)

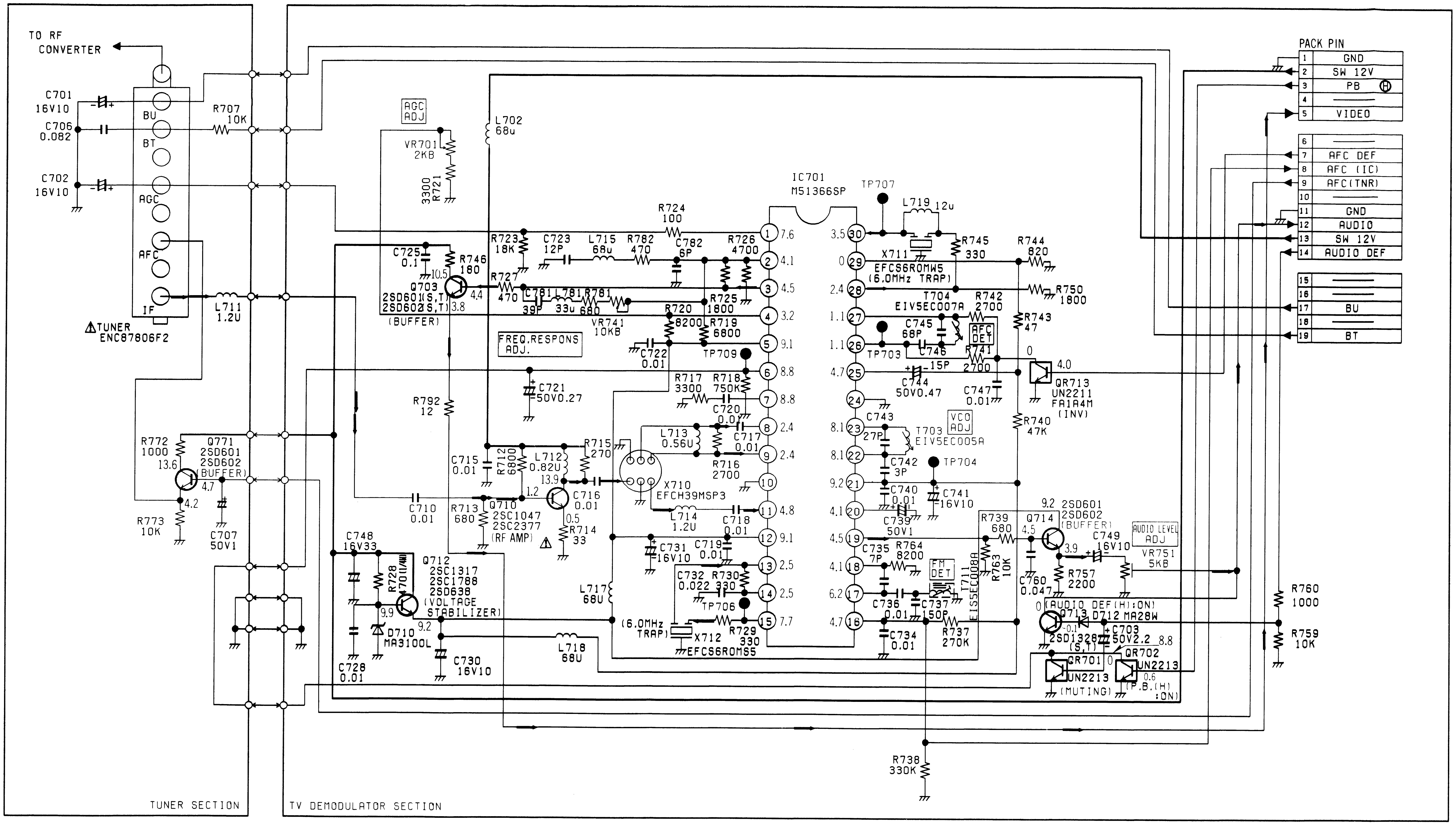
TUNER & TV DEMODULATOR PACK C.B.A. (NV-G45B)	
Transistor	
Q703	A-1
Q710	B-3
Q712	B-1
Q713	B-4
Q714	B-4
Q771	C-3
Transistor & Resistor	
QR701	B-4
QR702	B-4
QR713	A-2
Integrated Circuit	
IC701	B-2
Test Point	
TP701	C-4
TP703	A-2
TP704	A-3
TP706	A-3
TP707	A-2
TP709	B-2
Adjustment	
T703	A-2
T704	A-1
T711	A-3
VR701	B-1
VR741	B-2
VR751	B-4

ADDRESS INFORMATION

Back Page:
TUNER & TV DEMODULATOR PACK Section

3-28. TUNER & TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-G45B)

VIDEO SIGNAL PATH   AUDIO SIGNAL PATH

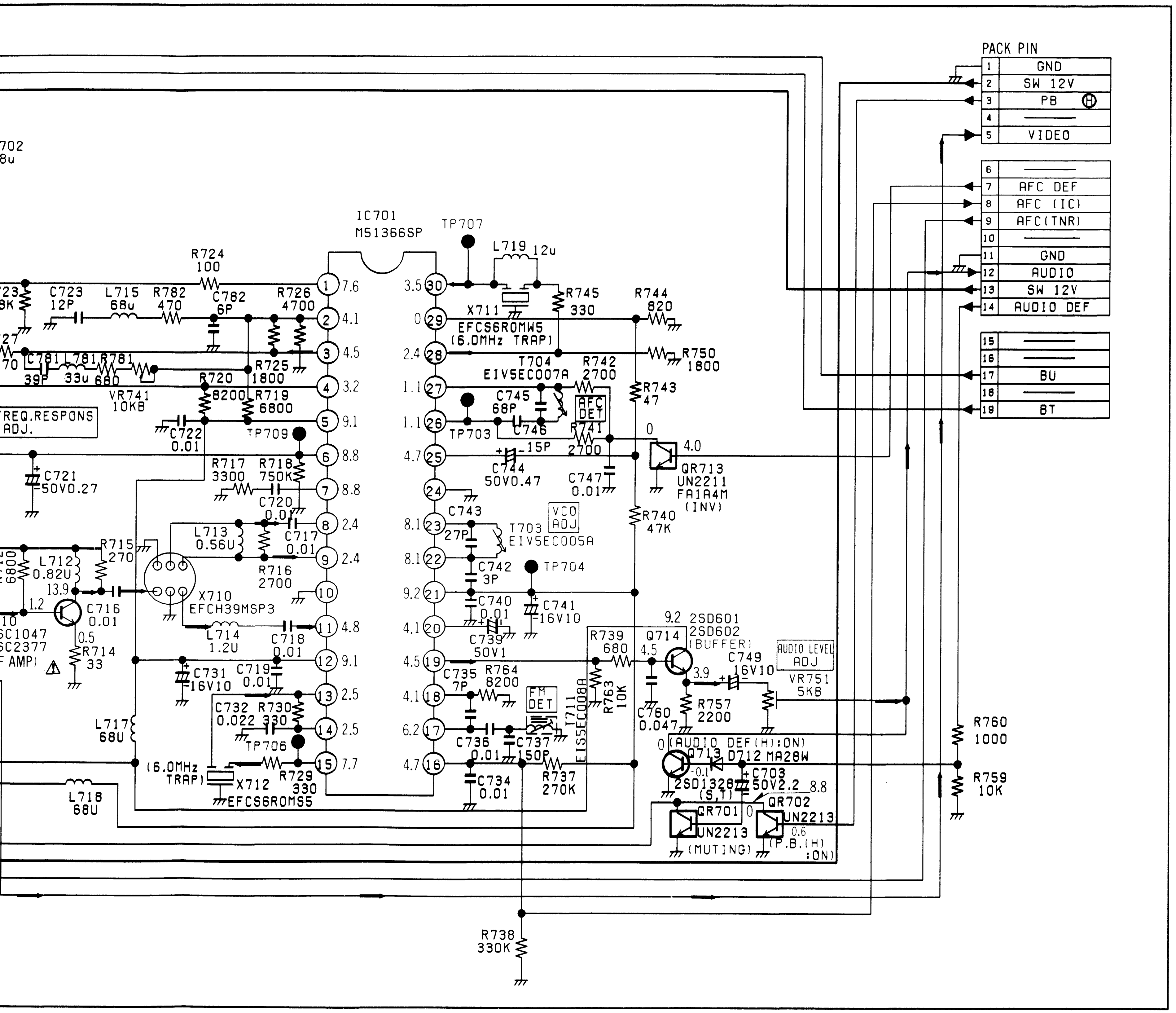

E
D
C
B
A
1
2
3
4
5
6
7
8
TO RF CONVERTER
C701 16V10
C706 0.082
C702 16V10
BU
BT
AGC
AFC
IF
R707 10K
L711 1.2U
⚠TUNER ENC87806F2
AGC ADJ
VR701 2KB
3300 R721
L702 68u
R772 1000
Q771 2SD601 2SD602 (BUFFER)
13.6
4.7
4.2
R773 10K
C707 50V1
C725 0.1
10.5
R746 180
Q703 2SD601(S,T) 2SD602(S,T) (BUFFER)
4.4
3.8
R792 12
R723 18K
C723 12P
L715 68u
R782 470
R727 470
C781 39P
L781 33u
R781 680
VR741 10KB
FREQ.RESPONS ADJ.
R724 100
C782 6P
R726 4700
R725 1800
R720 8200
R719 6800
C722 0.01
TP709
C721 50V0.27
R717 3300
R718 750K
C720 0.01
L713 0.56U
C717 0.01
R716 2700
X710 EFCH39MSP3
L714 1.2U
C718 0.01
C731 16V10
C719 0.01
C732 0.022
R730 330
TP706
(6.0MHz TRAP)
X712 EFCS6R0MS5
R729 330
C715 0.01
R712 6800
L712 0.82U
R715 270
C710 0.01
R713 680
Q710 2SC1047 2SC2377 (RF AMP)
1.2
13.9
C716 0.01
0.5
R714 33
C748 16V33
R728 470(1/4W)
Q712 2SC1317 2SC1788 2SD638 (VOLTAGE STABILIZER)
9.9
9.2
D710 MA3100L
C728 0.01
C730 16V10
L717 68U
L718 68U
IC701 M51366SP
TP707
L719 12u
7.6
4.1
4.5
3.2
9.1
8.8
8.8
2.4
2.4
4.8
9.1
2.5
2.5
7.7
3.5
0
2.4
1.1
1.1
4.7
8.1
8.1
9.2
4.1
4.5
4.1
6.2
4.7
X711 EFCS6R0MW5 (6.0MHz TRAP)
R745 330
T704 EIV5EC007A
R742 2700
C745 68P
C746
AFC DET
R741 2700
TP703
C744 50V0.47
15P
C747 0.01
C743 27P
T703 EIV5EC005A
VCO ADJ
C742 3P
TP704
C740 0.01
C741 16V10
C739 50V1
C735 7P
R764 8200
FM DET
T711 EIS5EC008A
C736 0.01
C737 150P
C734 0.01
R737 270K
R744 820
R750 1800
R743 47
0
4.0
QR713 UN2211 FA1A4M (INV)
R740 47K
R739 680
R763 10K
9.2
4.5
3.9
Q714 2SD601 2SD602 (BUFFER)
C749 16V10
AUDIO LEVEL ADJ
VR751 5KB
C760 0.047
R757 2200
(AUDIO DEF(H):ON)
Q713 2SD1328(S,T)
D712 MA28W
-0.1
C703 50V2.2
8.8
0
QR701 UN2213 (MUTING)
QR702 UN2213 (P.B.(H):ON)
0.6
R760 1000
R759 10K
R738 330K
PACK PIN
1 GND
2 SW 12V
3 PB Ⓗ
4
5 VIDEO
6
7 AFC DEF
8 AFC (IC)
9 AFC(TNR)
10
11 GND
12 AUDIO
13 SW 12V
14 AUDIO DEF
15
16
17 BU
18
19 BT
TUNER SECTION
TV DEMODULATOR SECTION

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

GRAM (NV-G45B)

DIO SIGNAL PATH

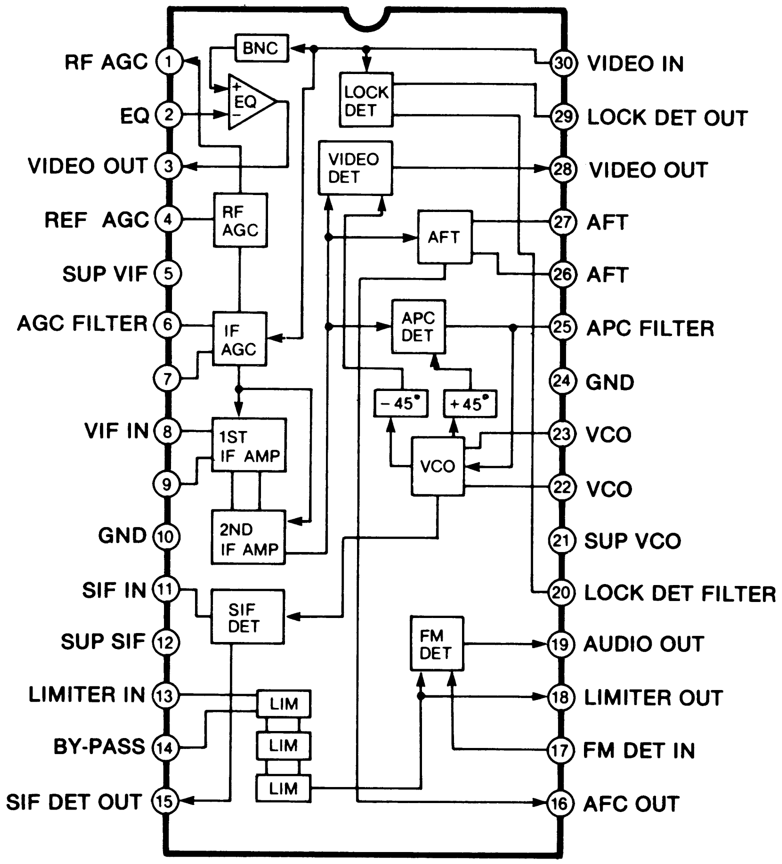

PACK PIN
1 GND
2 SW 12V
3 PB Ⓗ
4 ———
5 VIDEO
6 ———
7 AFC DEF
8 AFC (IC)
9 AFC (TNR)
10 ———
11 GND
12 AUDIO
13 SW 12V
14 AUDIO DEF
15 ———
16 ———
17 BU
18 ———
19 BT
IC701
M51366SP
TP707
L719 12u
R745 330
R744 820
X711
EFCS6R0MW5
(6.0MHz TRAP)
R750 1800
T704 EIV5EC007A
R742 2700
R743 47
C745 68P
AFC DET
C746
R741 2700
TP703
-15P
C744 50V0.47
C747 0.01
QR713 UN2211 FA1A4M (INV)
R740 47K
C743 27P
VCO ADJ
T703 EIV5EC005A
C742 3P
TP704
C740 0.01
C741 16V10
C739 50V1
C735 7P
R764 8200
FM DET
T711 EIS5EC008A
R763 10K
R739 680
Q714 2SD601 2SD602 (BUFFER)
C749 16V10
AUDIO LEVEL ADJ
VR751 5KB
R757 2200
C760 0.047
C736 0.01
C737 150P
R737 270K
C734 0.01
(AUDIO DEF(H):ON)
Q713 2SD1328 (S,T)
D712 MA28W
C703 50V2.2
QR701 UN2213 (MUTING)
QR702 UN2213 (P.B.(H):ON)
R760 1000
R759 10K
R738 330K
R724 100
C723 12P
L715 68u
R782 470
C782 6P
R726 4700
R725 1800
R720 8200
R719 6800
VR741 10KB
FREQ.RESPONS ADJ.
C722 0.01
TP709
C721 50V0.27
R717 3300
R718 750K
C720 0.01
L713 0.56U
C717 0.01
R716 2700
R715 270
L712 0.82U
C716 0.01
X710 EFCH39MSP3
L714 1.2U
C718 0.01
R714 33
2SC1047 2SC2377
C731 16V10
C719 0.01
L717 68U
C732 0.022
R730 330
TP706
(6.0MHz TRAP)
X712 EFCS6R0MS5
R729 330
L718 68U
C781 39P
L781 33u
R781 680
702 8u

PART NUMBER IS SHOWN
G WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

4 5 6 7 8

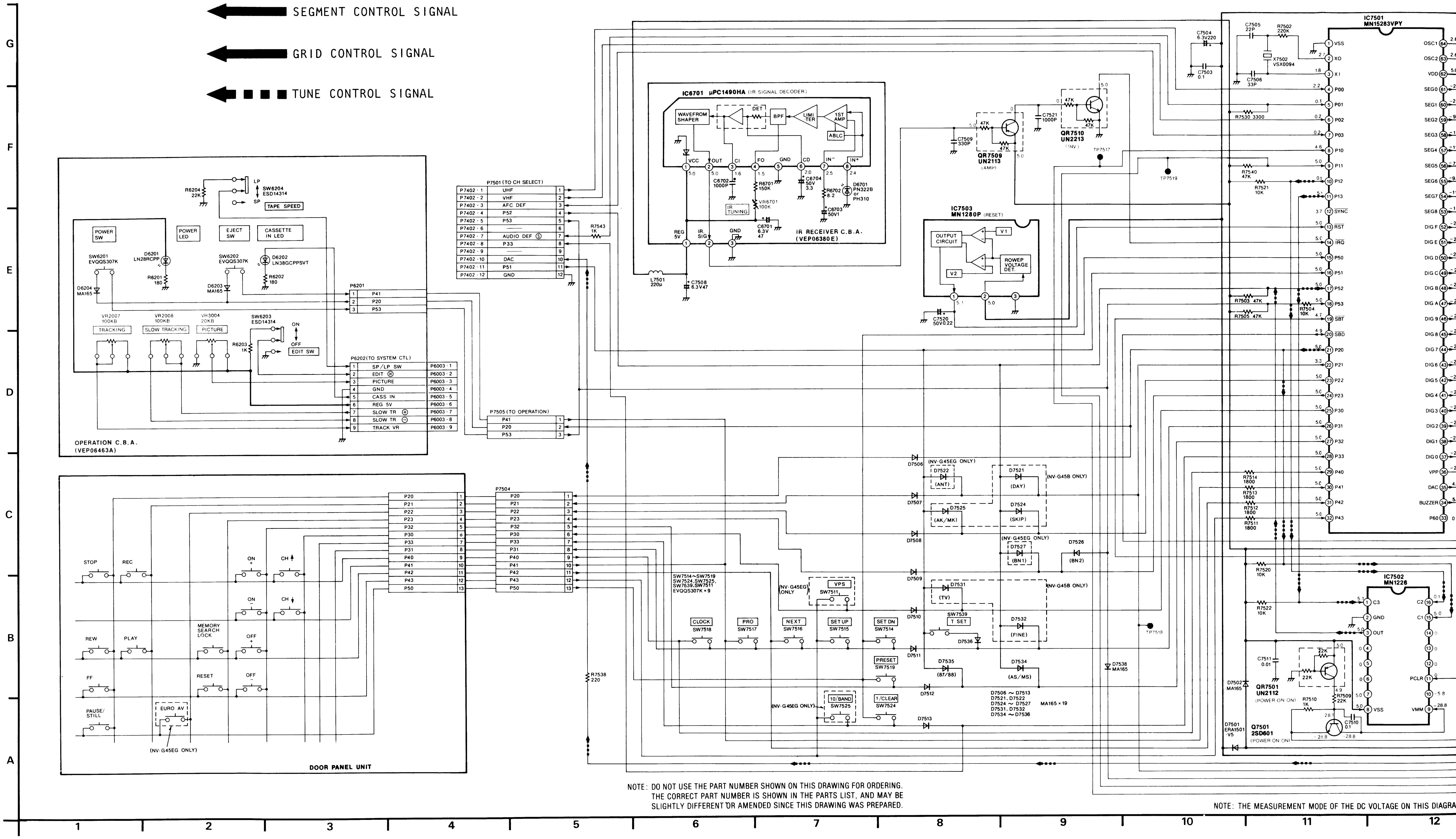
IC BLOCK
IC701 (M51366SP)


RF AGC 1
EQ 2
VIDEO OUT 3
REF AGC 4
SUP VIF 5
AGC FILTER 6
7
VIF IN 8
9
GND 10
SIF IN 11
SUP SIF 12
LIMITER IN 13
BY-PASS 14
SIF DET OUT 15
30 VIDEO IN
29 LOCK DET OUT
28 VIDEO OUT
27 AFT
26 AFT
25 APC FILTER
24 GND
23 VCO
22 VCO
21 SUP VCO
20 LOCK DET FILTER
19 AUDIO OUT
18 LIMITER OUT
17 FM DET IN
16 AFC OUT
BNC
EQ
LOCK DET
VIDEO DET
RF AGC
AFT
IF AGC
APC DET
-45°
+45°
1ST IF AMP
VCO
2ND IF AMP
SIF DET
FM DET
LIM
LIM
LIM

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

Next Page:
TIMER & OPERATION Section

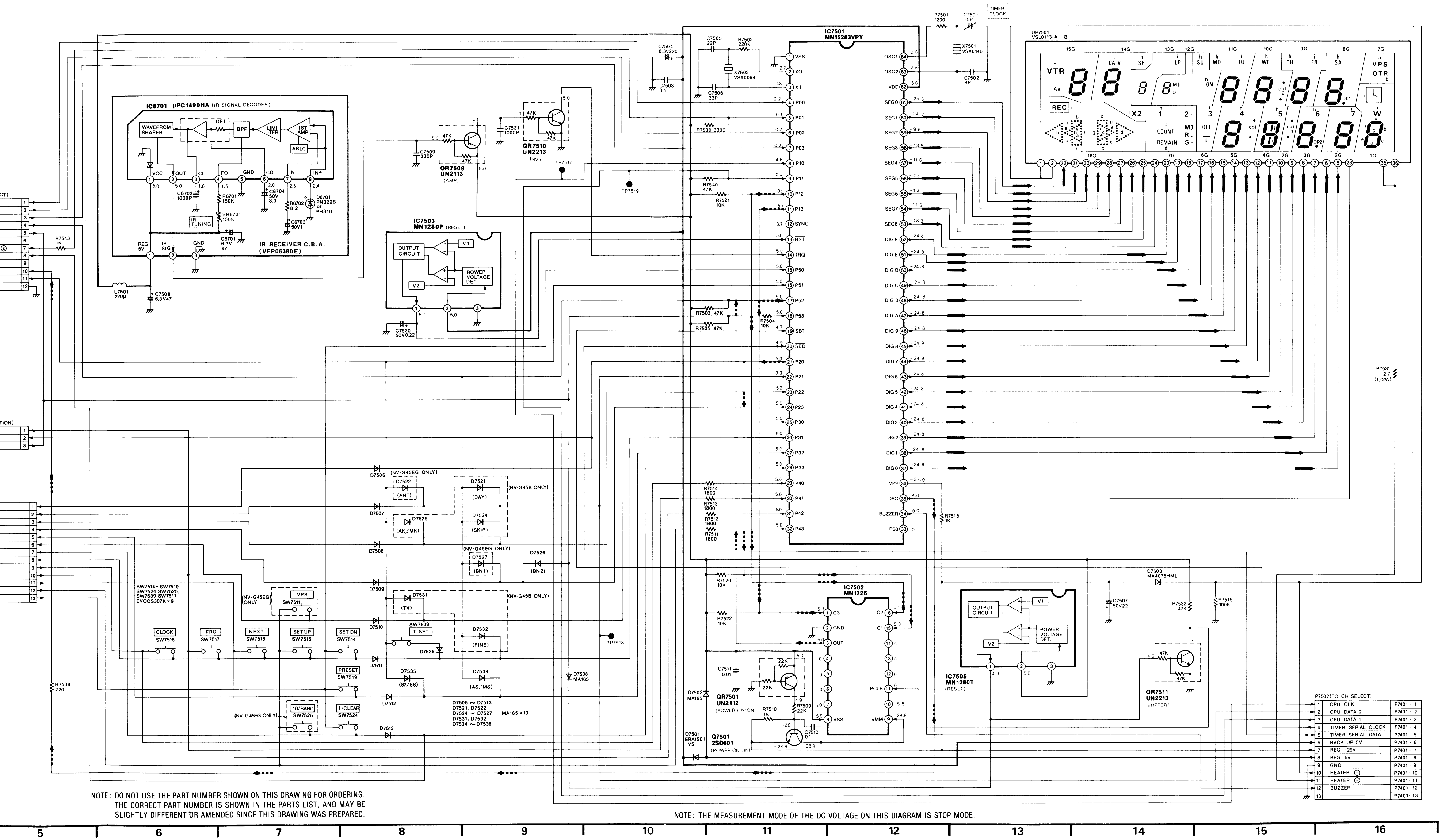
3-29. TIMER & OPERATION SCHEMATIC DIAGRAM



SEGMENT CONTROL SIGNAL
GRID CONTROL SIGNAL
TUNE CONTROL SIGNAL
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
OPERATION C.B.A.
(VEP06463A)
POWER SW
POWER LED
EJECT SW
CASSETTE IN LED
SW6201 EVQQS307K
D6201 LN28RCPP
R6201 180
D6204 MA165
SW6202 EVQQS307K
D6202 LN38GCPPSVT
R6202 180
D6203 MA165
R6204 22K
SW6204 ESD14314
LP
SP
TAPE SPEED
VR2007 100KB
TRACKING
VR2008 100KB
SLOW TRACKING
VR3004 20KB
PICTURE
SW6203 ESD14314
R6203 1K
ON
OFF
EDIT SW
P6201
P41
P20
P53
P6202(TO SYSTEM CTL)
SP/LP SW
EDIT
PICTURE
GND
CASS IN
REG 5V
SLOW TR ⊕
SLOW TR ⊖
TRACK VR
P6003 · 1
P6003 · 9
P7501 (TO CH SELECT)
P7402 · 1 UHF
P7402 · 2 VHF
P7402 · 3 AFC DEF
P7402 · 4 P52
P7402 · 5 P53
P7402 · 7 AUDIO DEF
P7402 · 8 P33
P7402 · 10 DAC
P7402 · 11 P51
P7402 · 12 GND
R7543 1K
P7505 (TO OPERATION)
IC6701 μPC1490HA (IR SIGNAL DECODER)
WAVEFROM SHAPER
DET
BPF
LIMITER
1ST AMP
ABLC
VCC
OUT
CI
FO
GND
CD
IN⁻
IN⁺
C6702 1000P
R6701 150K
VR6701 100K
IR TUNING
C6701 6.3V 47
C6704 50V 3.3
R6702 8.2
D6701 PN322B or PH310
C6703 50V1
REG 5V
IR. SIG
IR RECEIVER C.B.A. (VEP06380E)
L7501 220μ
C7508 6.3V47
C7509 330P
QR7509 UN2113 (AMP)
C7521 1000P
QR7510 UN2213 (INV)
TP7517
TP7519
IC7503 MN1280P (RESET)
OUTPUT CIRCUIT
ROWEP VOLTAGE DET.
C7520 50V0.22
C7504 6.3V220
C7503 0.1
C7505 22P
R7502 220K
X7502 VSX0094
C7506 33P
R7530 3300
R7540 47K
R7521 10K
R7503 47K
R7505 47K
R7504 10K
IC7501 MN15283VPY
VSS
XO
XI
P00
P01
P02
P03
P10
P11
P12
P13
SYNC
RST
IRQ
P50
P51
P52
P53
SBT
SBD
P20
P21
P22
P23
P30
P31
P32
P33
P40
P41
P42
P43
OSC1
OSC2
VDD
SEG0
SEG8
DIG F
DIG E
DIG D
DIG C
DIG B
DIG A
DIG 9
DIG 0
VPP
DAC
BUZZER
P60
R7514 1800
R7513 1800
R7512 1800
R7511 1800
R7520 10K
R7522 10K
IC7502 MN1226
C3
GND
OUT
C2
C1
PCLR
VSS
VMM
C7511 0.01
QR7501 UN2112 (POWER ON ON)
R7510 1K
R7509 22K
C7510 0.1
D7502 MA165
D7501 ERA1501 ·V5
Q7501 2SD601 (POWER ON ON)
P7504
P20
P21
P22
P23
P32
P30
P33
P31
P40
P41
P42
P43
P50
STOP
REC
REW
PLAY
FF
PAUSE/STILL
MEMORY SEARCH LOCK
RESET
ON +
ON −
OFF +
OFF −
CH ▲
CH ▼
EURO AV
(NV-G45EG ONLY)
DOOR PANEL UNIT
SW7514~SW7519 SW7524,SW7525, SW7539,SW7511 EVQQS307K×9
(NV-G45EG ONLY)
VPS SW7511
CLOCK SW7518
PRO SW7517
NEXT SW7516
SET UP SW7515
SET DN SW7514
PRESET SW7519
10/BAND SW7525
1/CLEAR SW7524
T SET SW7539
D7506
D7507
D7508
D7509
D7510
D7511
D7512
D7513
(NV-G45EG ONLY)
D7522 (ANT)
D7525 (AK/MK)
D7521 (DAY)
D7524 (SKIP)
(NV-G45B ONLY)
D7527 (BN1)
D7526 (BN2)
D7531 (TV)
D7532 (FINE)
D7536
D7535 (87/88)
D7534 (AS/MS)
D7538 MA165
R7538 220
TP7518
D7506 ~ D7513
D7521, D7522
D7524 ~ D7527
D7531, D7532
D7534 ~ D7536
MA165 × 19

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRA

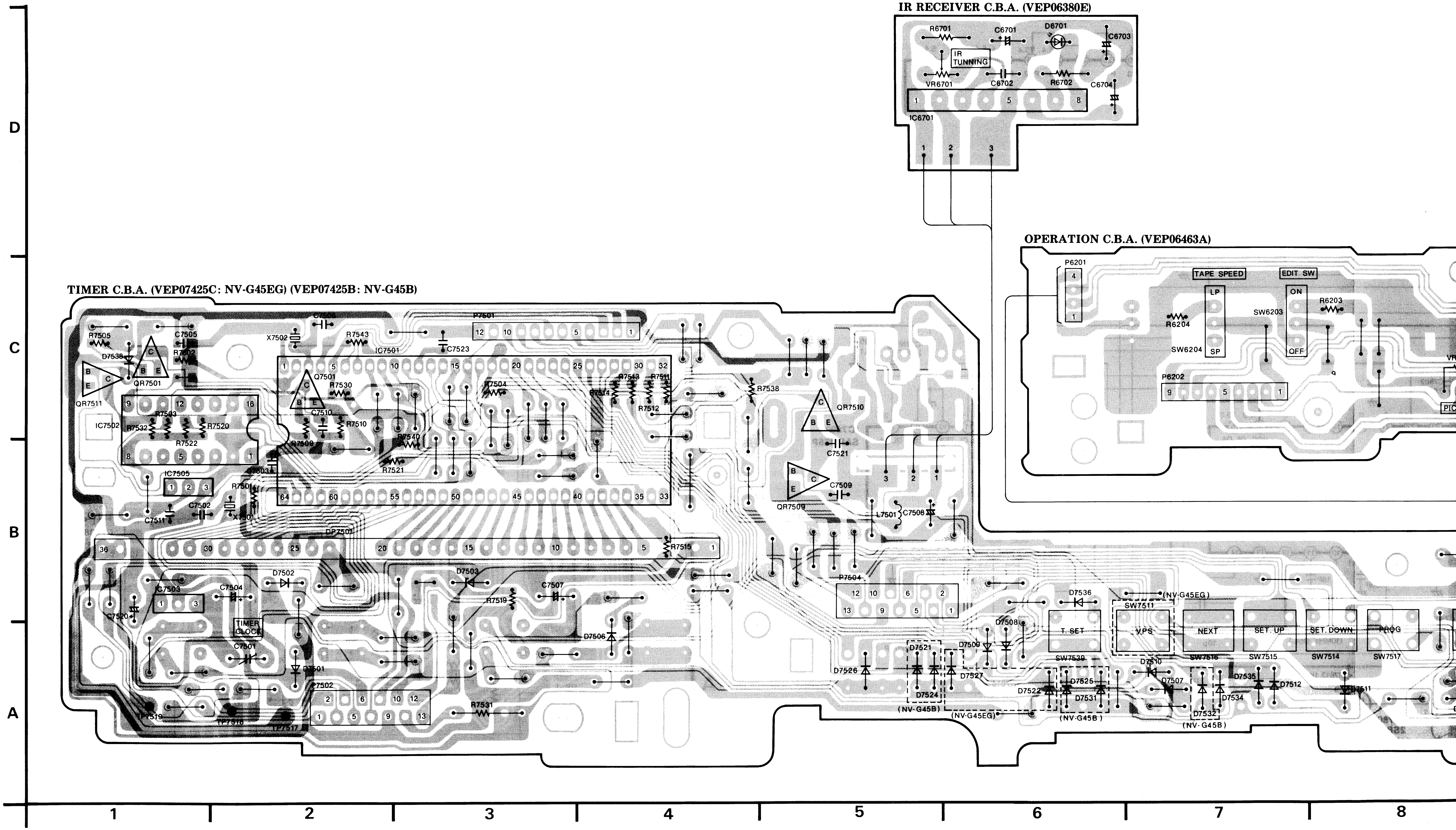

IC6701 μPC1490HA (IR SIGNAL DECODER)
WAVEFROM SHAPER
DET
BPF
LIMITER
1ST AMP
ABLC
IR RECEIVER C.B.A. (VEP06380E)
IR TUNING
IC7503 MN1280P (RESET)
OUTPUT CIRCUIT
ROWEP VOLTAGE DET.
QR7509 UN2113 (AMP)
QR7510 UN2213 (INV.)
IC7501 MN15283VPY
IC7502 MN1226
IC7505 MN1280T (RESET)
POWER VOLTAGE DET.
QR7501 UN2112 (POWER ON ON)
Q7501 2SD601 (POWER ON ON)
QR7511 UN2213 (BUFFER)
DP7501 VSL0113-A, -B
TIMER CLOCK
X7501 VSX0140
X7502 VSX0094
VTR
CATV
SP
LP
SU
MO
TU
WE
TH
FR
SA
VPS
OTR
REC
X2
COUNT
REMAIN
OFF
ON
SW7514~SW7519 SW7524,SW7525, SW7539,SW7511 EVQQS307K×9
CLOCK SW7518
PRO SW7517
NEXT SW7516
SET UP SW7515
SET DN SW7514
PRESET SW7519
1/CLEAR SW7524
10/BAND SW7525
VPS SW7511
T SET SW7539
(NV-G45EG ONLY)
(NV-G45B ONLY)
(ANT)
(DAY)
(AK/MK)
(SKIP)
(BN1)
(BN2)
(TV)
(FINE)
(87/88)
(AS/MS)
D7506 ~ D7513 D7521, D7522 D7524 ~ D7527 D7531, D7532 D7534 ~ D7536 MA165×19
D7503 MA4075HML
D7501 ERA1501 -V5
TP7517
TP7518
TP7519
P7502(TO CH SELECT)
5
6
7
8
9
10
11
12
13
14
15
16

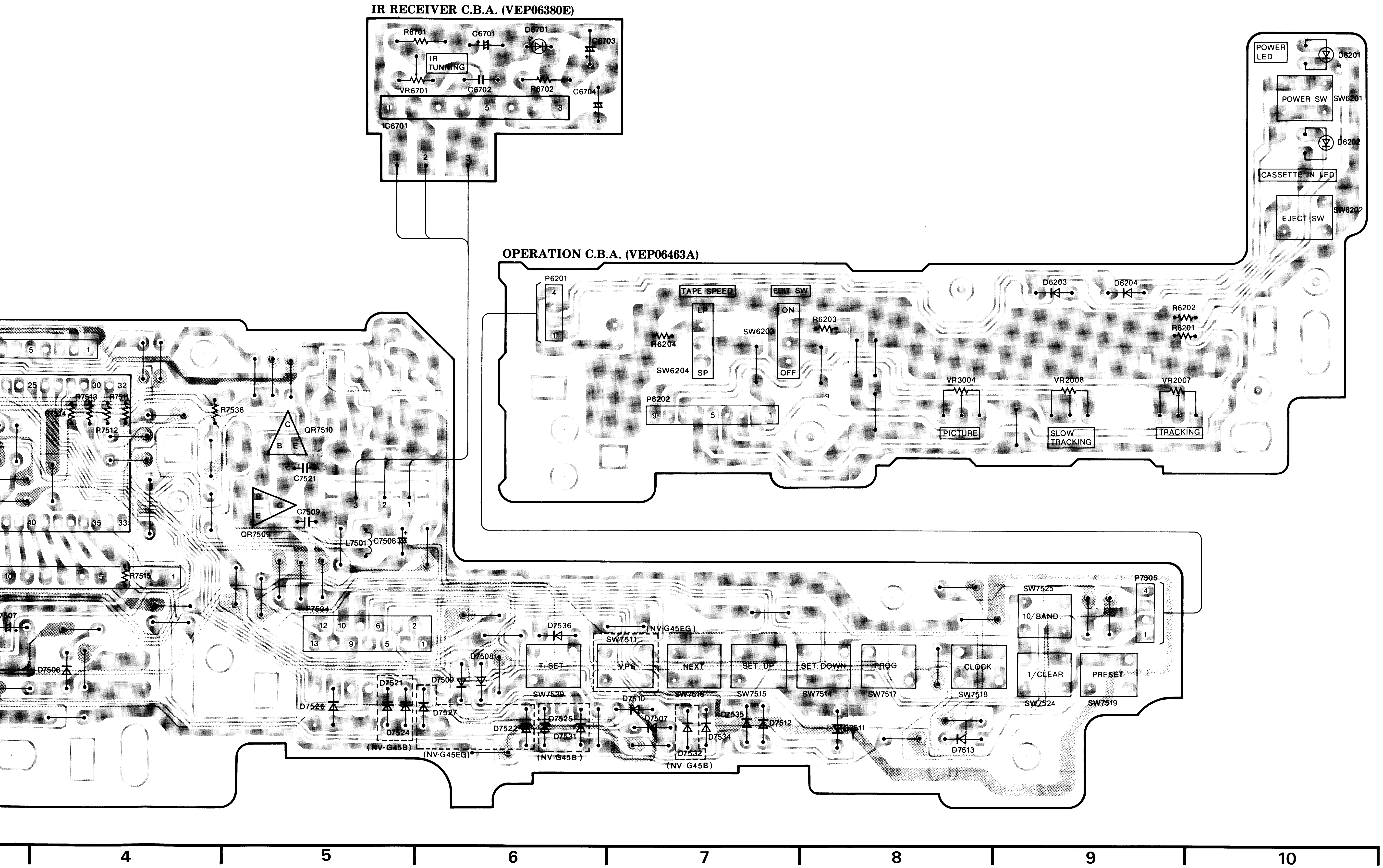
1	CPU CLK	P7401 · 1
2	CPU DATA 2	P7401 · 2
3	CPU DATA 1	P7401 · 3
4	TIMER SERIAL CLOCK	P7401 · 4
5	TIMER SERIAL DATA	P7401 · 5
6	BACK UP 5V	P7401 · 6
7	REG -29V	P7401 · 7
8	REG 6V	P7401 · 8
9	GND	P7401 · 9
10	HEATER ⊖	P7401 · 10
11	HEATER ⊕	P7401 · 11
12	BUZZER	P7401 · 12
13	———	P7401 · 13

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE
SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

3-30. TIMER C.B.A. (VEP07425C: NV-G45EG) (VEP07425B: NV-G45B) & OPERATION C.B.A. (VEP06463A)


IR RECEIVER C.B.A. (VEP06380E)
R6701
C6701
D6701
C6703
IR TUNNING
VR6701
C6702
R6702
C6704
IC6701
OPERATION C.B.A. (VEP06463A)
P6201
TAPE SPEED
LP
SP
SW6204
R6204
EDIT SW
ON
OFF
SW6203
R6203
P6202
TIMER C.B.A. (VEP07425C: NV-G45EG) (VEP07425B: NV-G45B)
R7505
C7505
D7538
QR7501
QR7511
R7502
IC7502
R7503
R7532
R7520
R7522
IC7505
R7501
C7502
C7511
X7501
X7502
C7506
R7543
P7501
C7523
IC7501
Q7501
R7530
C7510
R7510
R7509
R7540
R7521
R7504
R7513
R7511
R7514
R7512
R7538
QR7510
C7521
QR7509
C7509
L7501
C7508
DP7501
R7515
P7504
C7503
C7520
C7504
D7502
D7503
R7519
C7507
D7506
TIMER CLOCK
C7501
D7501
P7502
R7531
TP7519
TP7518
TP7517
D7536
(NV-G45EG)
SW7511
T. SET
VPS
NEXT
SET. UP
SET. DOWN
PROG
D7508
D7509
D7521
D7526
D7524
D7527
(NV-G45B)
(NV-G45EG)
SW7539
SW7516
SW7515
SW7514
SW7517
D7510
D7507
D7522
D7525
D7531
(NV-G45B)
D7535
D7534
D7512
D7511
D7532
(NV-G45B)
A
B
C
D
1
2
3
4
5
6
7
8


IR RECEIVER C.B.A. (VEP06380E)
R6701
C6701
D6701
C6703
IR TUNNING
VR6701
C6702
R6702
C6704
IC6701
1
2
3
OPERATION C.B.A. (VEP06463A)
POWER LED
D6201
POWER SW
SW6201
D6202
CASSETTE IN LED
EJECT SW
SW6202
P6201
TAPE SPEED
EDIT SW
LP
SP
ON
OFF
SW6203
SW6204
R6203
R6204
D6203
D6204
R6202
R6201
P6202
VR3004
VR2008
VR2007
PICTURE
SLOW TRACKING
TRACKING
R7538
R7513
R7511
R7514
R7512
QR7510
C7521
QR7509
C7509
L7501
C7508
R7515
P7504
D7507
D7506
D7536
(NV-G45EG)
SW7511
VPS
T. SET
NEXT
SET. UP
SET. DOWN
PROG
CLOCK
10/BAND
1/CLEAR
PRESET
SW7525
P7505
SW7520
SW7516
SW7515
SW7514
SW7517
SW7518
SW7524
SW7519
D7508
D7509
D7521
D7524
D7526
D7527
D7522
D7525
D7531
D7510
D7507
D7532
D7534
D7535
D7512
D7511
D7513
(NV-G45B)
(NV-G45EG)
(NV-G45B)
(NV-G45B)
4
5
6
7
8
9
10

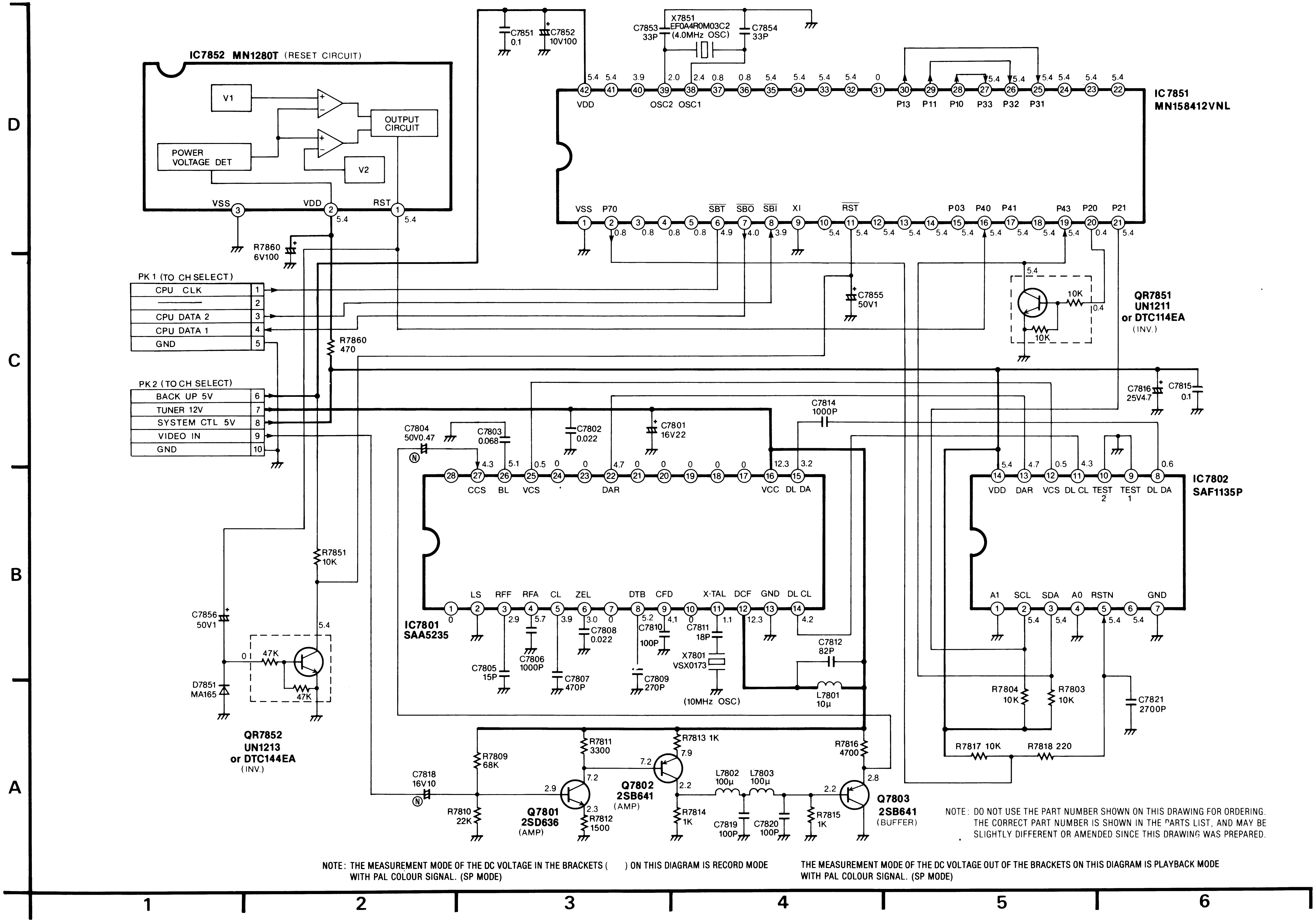
TIMER C.B.A. & OPERATION C.B.A.	
Transistor	
Q7501	C-2
Transistor & Resistor	
QR7501	C-1
QR7509	B-5
QR7510	C-5
QR7511	C-1
Integrated Circuit	
IC6701	D-5
IC7501	C-2
IC7502	C-1
IC7503	B-1
IC7505	B-1
Test Point	
TP7517	A-2
TP7518	A-2
TP7519	A-1
Adjustment	
VR2007	C-9
VR2008	C-9
VR3004	C-8
VR6701	D-6
C7501	A-2
Connector	
P6201	C-6
P6202	C-7
P7501	C-3
P7502	A-2
P7504	B-5
P7505	B-9

ADDRESS INFORMATION

Next Page:
VPS PACK Section

3-31. VPS PACK SCHEMATIC DIAGRAM (NV-G45EG)

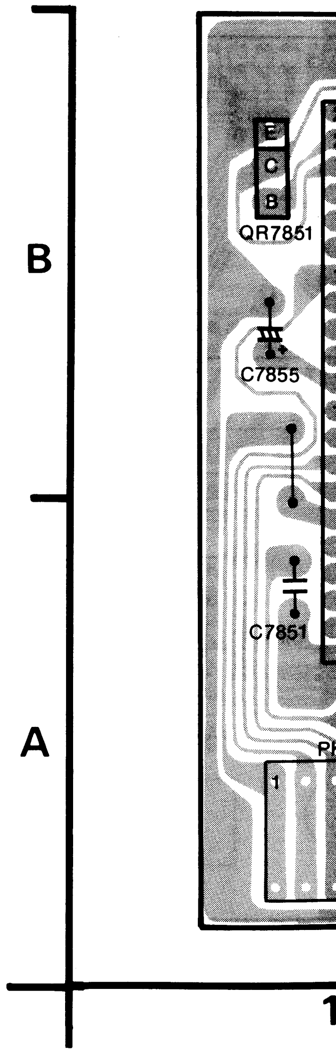
3-32. VPS PACK C

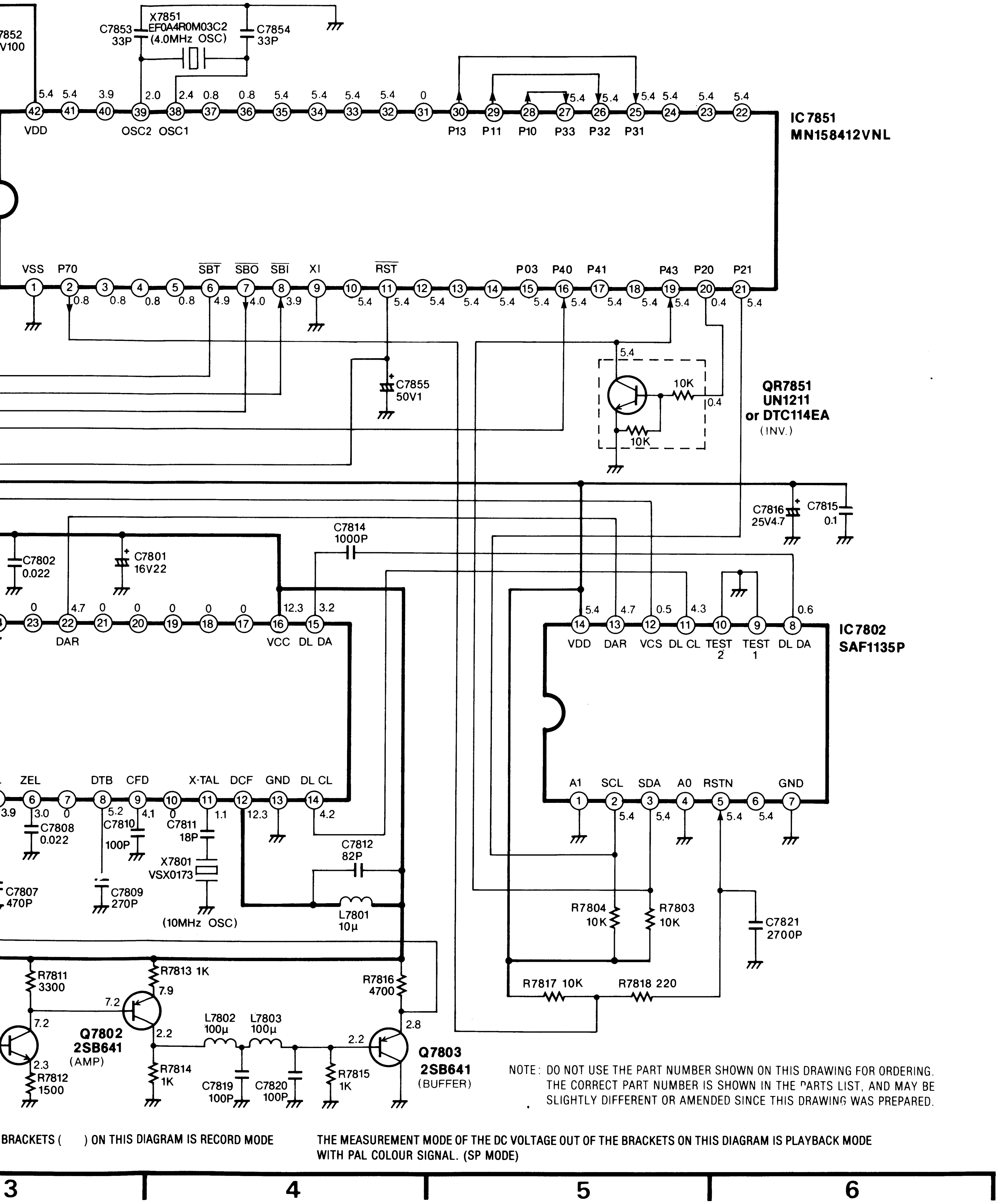

D
C
B
A
1
2
3
4
5
6
IC7852 MN1280T (RESET CIRCUIT)
V1
V2
OUTPUT CIRCUIT
POWER VOLTAGE DET
VSS
VDD
RST
5.4
R7860 6V100
PK 1 (TO CH SELECT)
CPU CLK
CPU DATA 2
CPU DATA 1
GND
R7860 470
PK 2 (TO CH SELECT)
BACK UP 5V
TUNER 12V
SYSTEM CTL 5V
VIDEO IN
GND
C7851 0.1
C7852 10V100
X7851 EF0A4R0M03C2 (4.0MHz OSC)
C7853 33P
C7854 33P
IC7851 MN158412VNL
VDD
OSC2
OSC1
P13
P11
P10
P33
P32
P31
VSS
P70
SBT
SBO
SBI
XI
RST
P03
P40
P41
P43
P20
P21
C7855 50V1
QR7851 UN1211 or DTC114EA (INV.)
10K
C7816 25V4.7
C7815 0.1
C7814 1000P
C7804 50V0.47
C7803 0.068
C7802 0.022
C7801 16V22
CCS
BL
VCS
DAR
VCC
DL DA
IC7801 SAA5235
LS
RFF
RFA
CL
ZEL
DTB
CFD
X-TAL
DCF
GND
DL CL
C7805 15P
C7806 1000P
C7807 470P
C7808 0.022
C7810 100P
C7809 270P
C7811 18P
X7801 VSX0173
(10MHz OSC)
C7812 82P
L7801 10μ
IC7802 SAF1135P
VDD
DAR
VCS
DL CL
TEST 2
TEST 1
DL DA
A1
SCL
SDA
A0
RSTN
GND
R7804 10K
R7803 10K
C7821 2700P
R7817 10K
R7818 220
R7851 10K
C7856 50V1
D7851 MA165
47K
QR7852 UN1213 or DTC144EA (INV.)
C7818 16V10
R7809 68K
R7810 22K
R7811 3300
R7812 1500
Q7801 2SD636 (AMP)
R7813 1K
Q7802 2SB641 (AMP)
R7814 1K
L7802 100μ
L7803 100μ
C7819 100P
C7820 100P
R7815 1K
R7816 4700
Q7803 2SB641 (BUFFER)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)


B
A
E
C
B
QR7851
C7855
C7851
1


X7851
EF0A4R0M03C2
(4.0MHz OSC)
C7853 33P
C7854 33P
IC7851
MN158412VNL
VDD
OSC2
OSC1
P13
P11
P10
P33
P32
P31
VSS
P70
SBT
SBO
SBI
XI
RST
P03
P40
P41
P43
P20
P21
C7855 50V1
QR7851
UN1211
or DTC114EA
(INV.)
10K
C7816 25V4.7
C7815 0.1
C7802 0.022
C7801 16V22
C7814 1000P
IC7802
SAF1135P
VDD
DAR
VCS
DL CL
TEST 2
TEST 1
DL DA
VCC
A1
SCL
SDA
A0
RSTN
GND
ZEL
DTB
CFD
X-TAL
DCF
DL CL
C7808 0.022
C7810 100P
C7811 18P
X7801
VSX0173
(10MHz OSC)
C7807 470P
C7809 270P
C7812 82P
L7801 10μ
R7804 10K
R7803 10K
C7821 2700P
R7817 10K
R7818 220
R7811 3300
R7813 1K
R7816 4700
Q7802
2SB641
(AMP)
R7812 1500
R7814 1K
L7802 100μ
L7803 100μ
C7819 100P
C7820 100P
R7815 1K
Q7803
2SB641
(BUFFER)
3
4
5
6

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

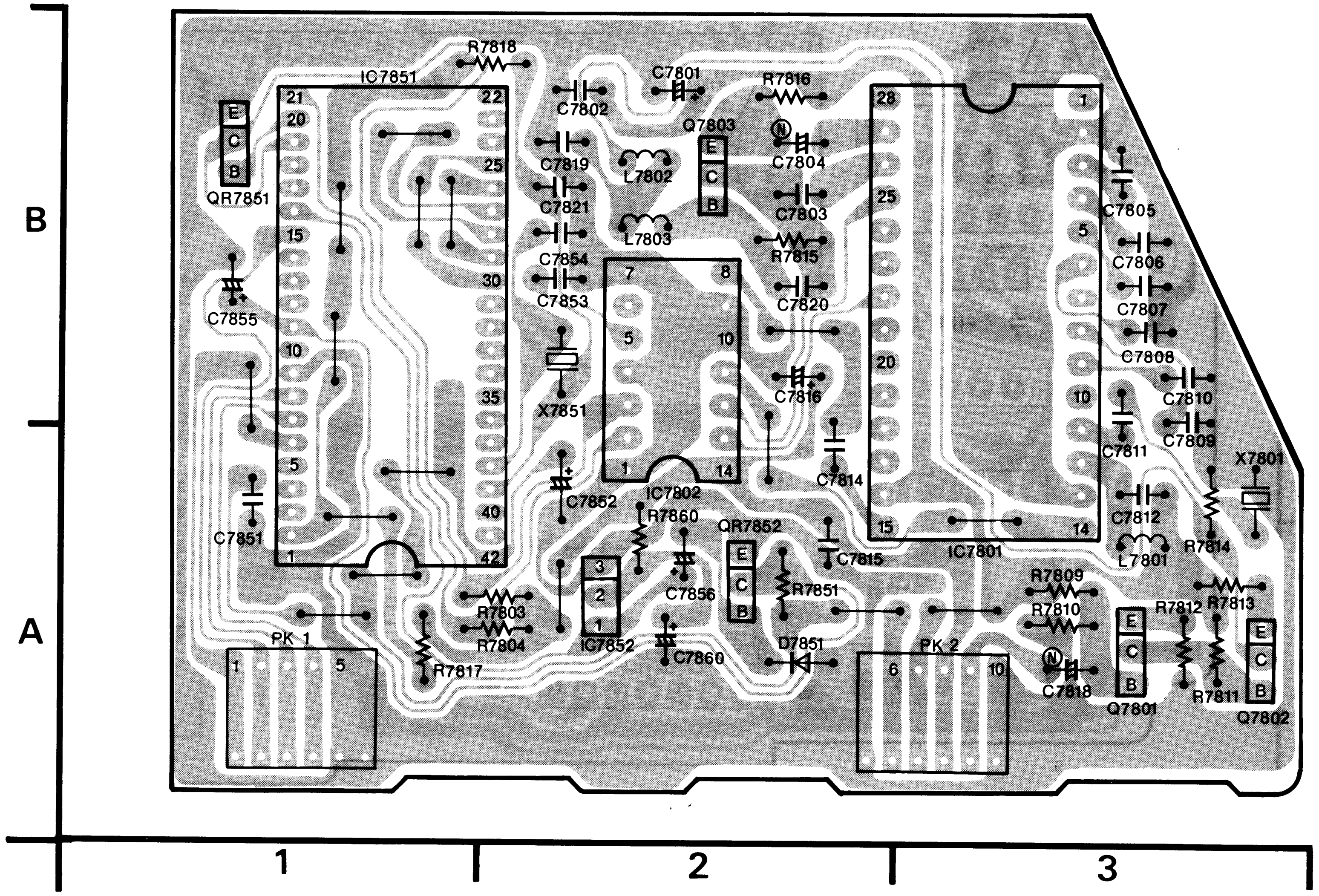
BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

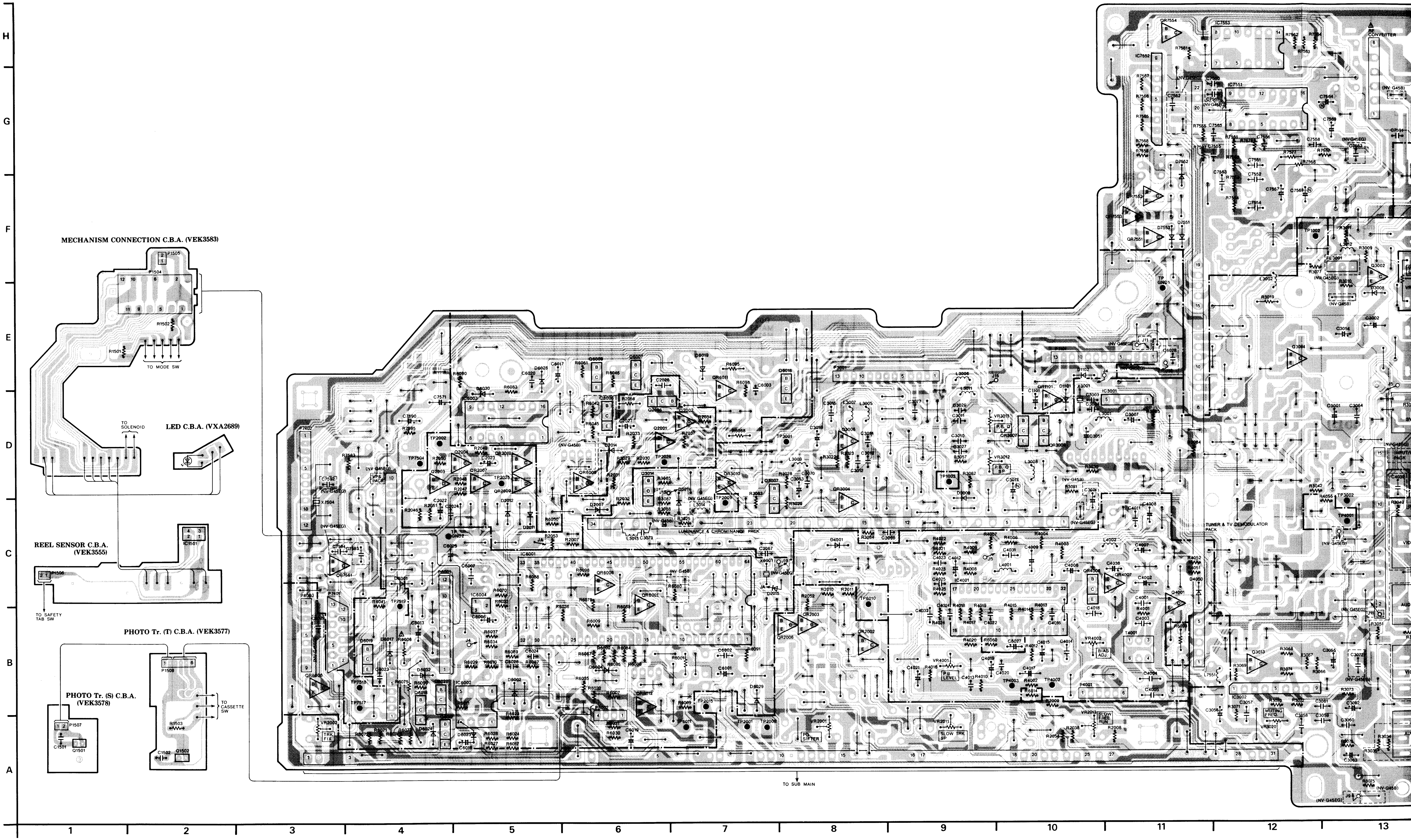
3-32. VPS PACK C.B.A. (VEP07439A: NV-G45EG)

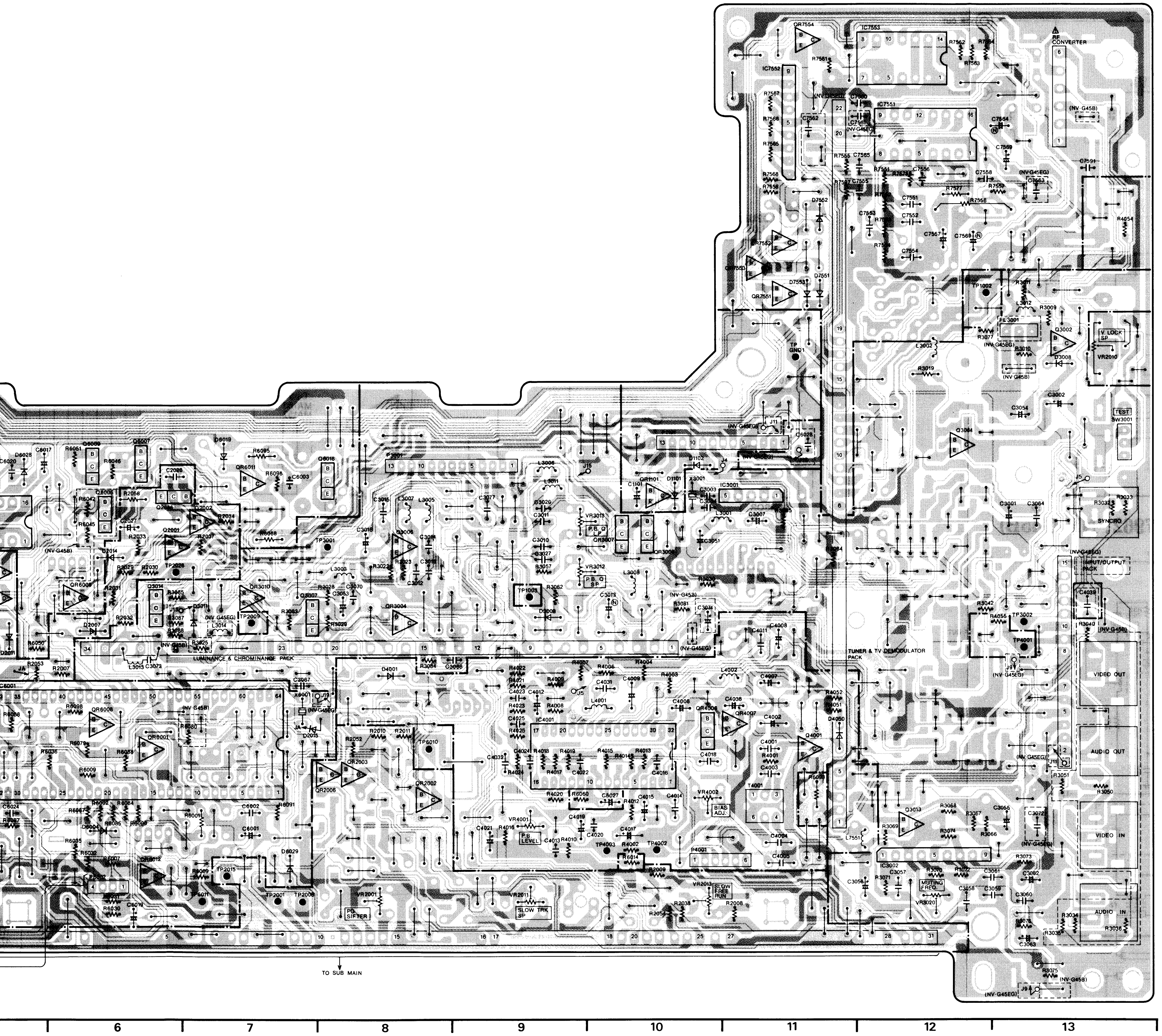
VPS PACK C.B.A.	
Transistor	
Q7801	A-3
Q7802	A-3
Q7803	B-2
Transistor & Resistor	
QR7851	B-1
QR7852	A-2
Integrated Circuit	
IC7801	A-3
IC7802	A-2
IC7851	B-1
IC7852	A-2

ADDRESS INFORMATION


B
A
1
2
3
IC7851
R7818
C7802
C7801
R7816
Q7803
QR7851
C7819
C7821
L7802
L7803
C7804
C7803
R7815
C7820
C7854
C7853
C7855
X7851
C7816
C7814
C7851
C7852
IC7802
R7860
QR7852
C7815
C7856
R7851
R7803
R7804
IC7852
C7860
R7817
D7851
PK 1
PK 2
IC7801
C7805
C7806
C7807
C7808
C7810
C7809
C7811
X7801
C7812
R7814
L7801
R7809
R7810
R7812
R7813
C7818
Q7801
R7811
Q7802

3-33. MAIN C.B.A. (VEP03493AT: NV-G45EG) (VEP03493AG: NV-G45B)


MECHANISM CONNECTION C.B.A. (VEK3583)
LED C.B.A. (VXA2689)
REEL SENSOR C.B.A. (VEK3555)
PHOTO Tr. (T) C.B.A. (VEK3577)
PHOTO Tr. (S) C.B.A. (VEK3578)
TO MODE SW
TO SOLENOID
TO SAFETY TAB SW
TO CASSETTE SW
TO SUB MAIN
LUMINANCE & CHROMINANCE PACK
TUNER & TV DEMODULATOR PACK
RF CONVERTER
VPS PACK
TRK FIX
PG SHIFTER
SLOW TRK SP
P.B LEVEL
BIAS ADJ.
SLOW FREE RUN
MUTING FREQ.
P.B.O SP
P.B.O LP
TP GND1
TP GND2
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13


RF CONVERTER
TUNER & TV DEMODULATOR PACK
LUMINANCE & CHROMINANCE PACK
INPUT/OUTPUT PACK
VIDEO OUT
AUDIO OUT
VIDEO IN
AUDIO IN
V. LOCK SP
TEST SW3001
SYNCHRO
P.B. Q LP
P.B. Q SP
P.B. LEVEL
BIAS ADJ.
SLOW FREE RUN
MUTING FREQ.
SLOW TRK SP
PG SIFTER
TP GND1
TO SUB MAIN
6
7
8
9
10
11
12
13

MAIN C.B.A. ADDRESS INFORMATION

POWER SUPPLY Section	
Transistor & Resistor	
QR1101	D-10
Test Point	
TP1002	F-12
TP1003	D-9
TP GND 1	E-11
Connector	
P1101	E-10

ADDRESS INFORMATION

SYSTEM CONTROL Section	
Transistor	
Q1501	A-1
Q1502	A-2
Q6006	D-6
Q6009	E-6
Q6016	E-8
Q6017	A-4
Q6018	B-4
Q6019	B-4
Q6020	B-4
Transistor & Resistor	
QR6001	C-6
QR6005	D-6
QR6006	B-3
QR6007	E-6
QR6008	C-6
QR6011	E-7
QR6012	B-6
Integrated Circuit	
IC1501	C-2
IC6001	C-5
IC6002	B-5
IC6003	D-5
IC6004	C-5
Test Point	
TP6010	C-8
TP6011	A-7
TP GND 2	C-5
Connector	
P1504	F-2
P1505	F-2
P1506	C-1
P1507	A-1
P1508	B-2
P6001	C-4
P6002	B-6
P6003	C-3

ADDRESS INFORMATION

SERVO Section	
Transistor	
Q2001	D-6
Q2002	D-7
Q2003	D-4
Q2004	D-5
Q2006	D-6
Transistor & Resistor	
QR2002	B-8
QR2003	B-8
QR2006	B-8
QR2007	D-5
QR2009	D-5
QR2010	D-5
Test Point	
TP2001	A-7
TP2002	D-4
TP2008	A-7
TP2009	C-7
TP2015	B-7
TP2025	D-5
TP2026	D-6
Adjustment	
VR2001	A-8
VR2002	A-3
VR2010	E-13
VR2011	A-9
VR2013	A-10

ADDRESS INFORMATION

LUMINANCE & CHROMINANCE Section	
Transistor	
Q3002	F-13
Q3004	E-12
Q3006	D-8
Q3007	D-7
Q3013	B-12
Transistor & Resistor	
QR3004	D-8
QR3006	D-10
QR3007	D-10
QR3010	D-7
QR3014	D-6
Integrated Circuit	
IC3001	D-11
IC3002	B-12
Test Point	
TP3001	D-8
TP3002	C-13
Adjustment	
VR3012	D-10
VR3013	D-10
VR3020	A-12
Connector	
P3001	E-8

ADDRESS INFORMATION

AUDIO Section	
Transistor	
Q4001	C-11
Transistor & Resistor	
QR4006	C-10
QR4007	C-11
Integrated Circuit	
IC4001	C-9
Test Point	
TP4001	C-13
TP4002	B-10
TP4003	B-10
Adjustment	
VR4001	B-9
VR4002	B-10
Connector	
P4001	B-10

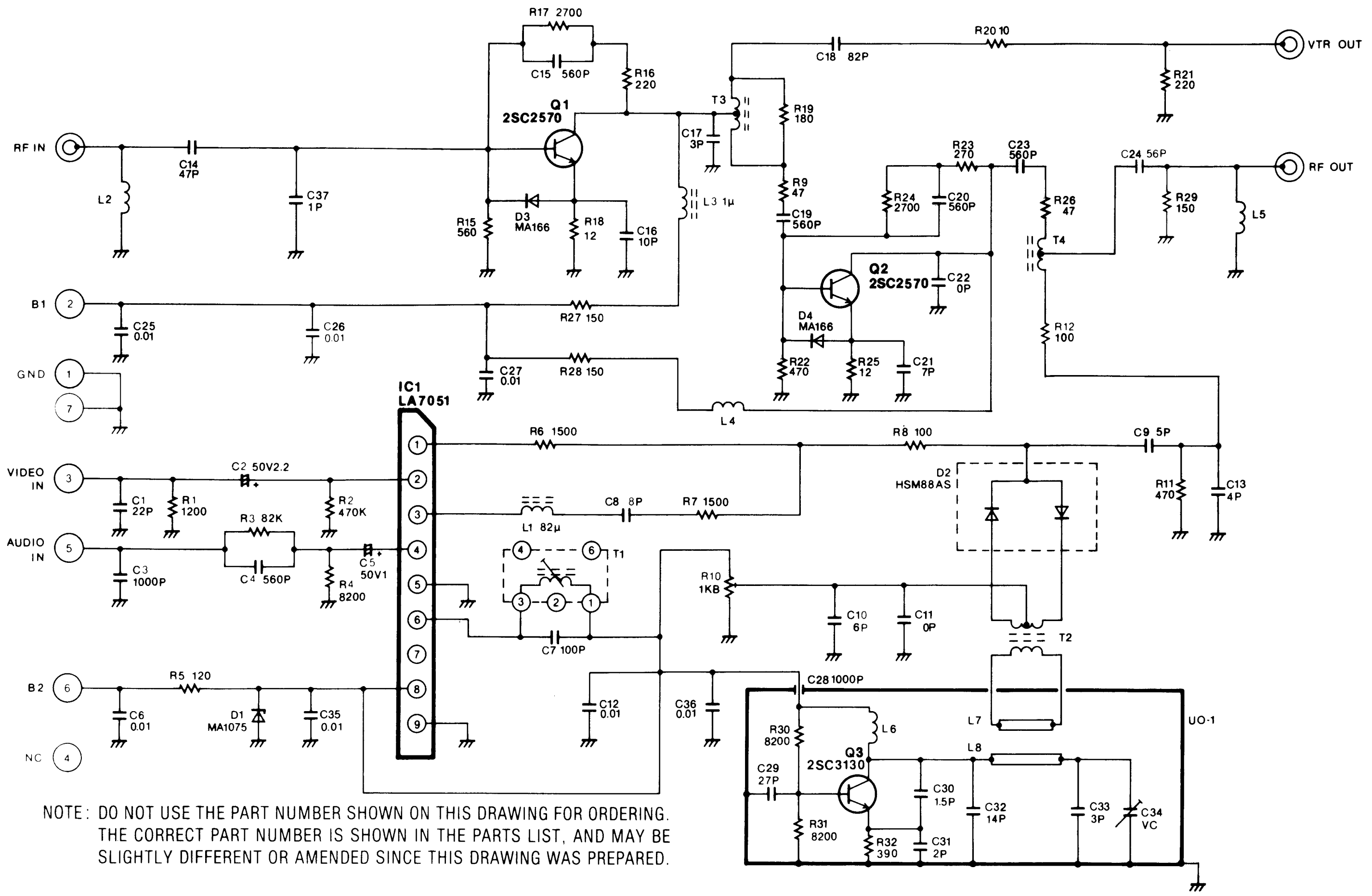
ADDRESS INFORMATION

CH SELECT Section	
Transistor & Resistor	
QR7551	F-11
QR7552	F-11
QR7553	F-11
QR7554	H-11
QR7561	C-3
Integrated Circuit	
IC7551	G-12
IC7552	G-11
IC7553	H-12
Test Point	
TP7504	D-4
TP7517	B-4
TP7518	B-4
TP7519	C-4
Connector	
P7401	C-3
P7402	D-3

ADDRESS INFORMATION

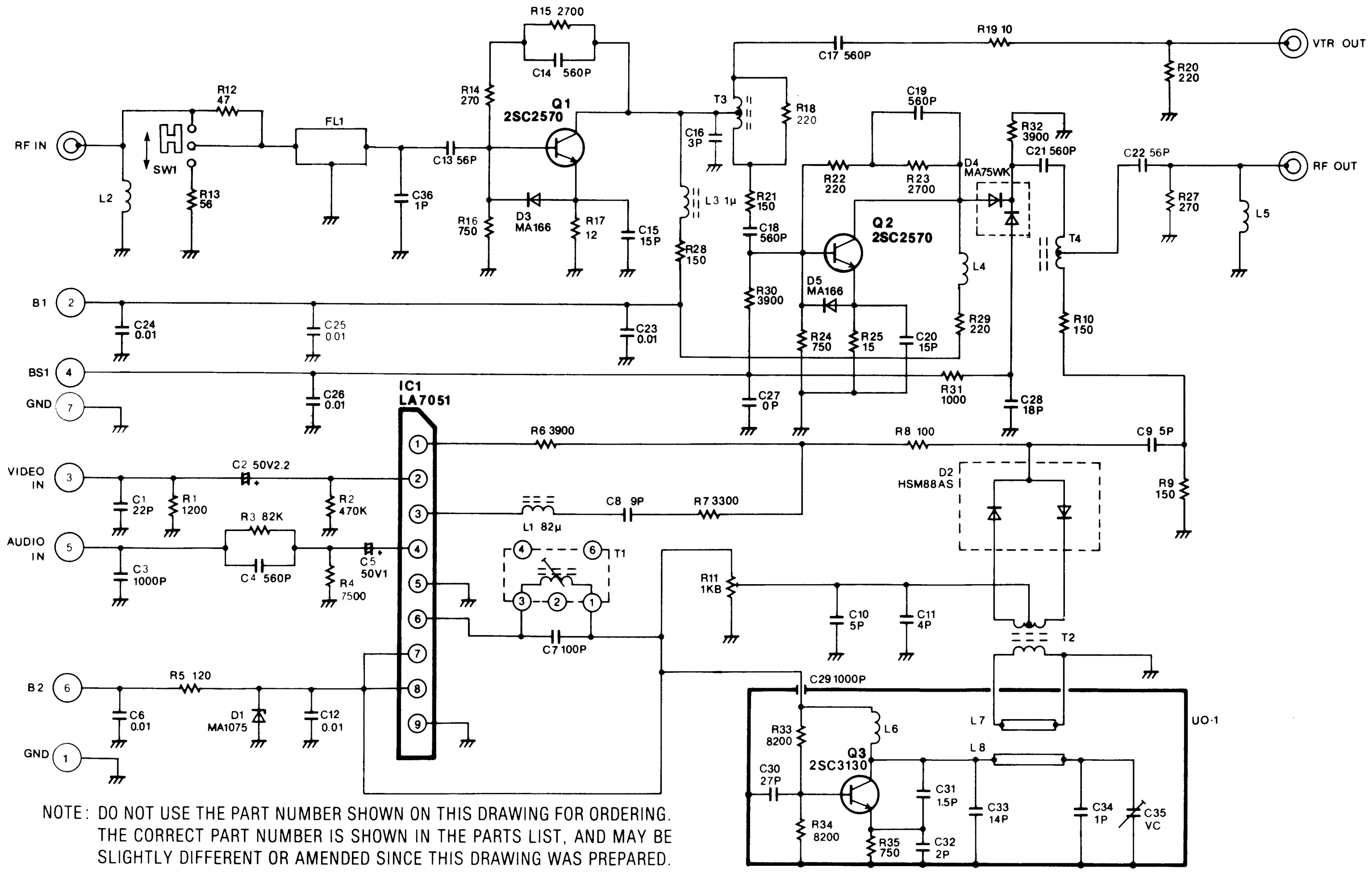
Next Page:
RF CONVERTER & DIGITAL
SCANNER Section

3-34. RF CONVERTER SCHEMATIC DIAGRAM (ENC87966: NV-G45EG)


RF IN
VTR OUT
RF OUT
B1 (2)
GND (1)
(7)
VIDEO IN (3)
AUDIO IN (5)
B2 (6)
NC (4)
Q1 2SC2570
Q2 2SC2570
Q3 2SC3130
IC1 LA7051
D1 MA1075
D2 HSM88AS
D3 MA166
D4 MA166
T1
T2
T3
T4
L1 82μ
L2
L3 1μ
L4
L5
L6
L7
L8
R17 2700
C15 560P
R16 220
C14 47P
C37 1P
R15 560
R18 12
C16 10P
C17 3P
C18 82P
R19 180
R20 10
R21 220
R9 47
C19 560P
R23 270
C23 560P
R24 2700
C20 560P
R26 47
C24 56P
R29 150
C22 0P
R22 470
R25 12
C21 7P
R12 100
C25 0.01
C26 0.01
R27 150
R28 150
C27 0.01
R6 1500
R8 100
C9 5P
R11 470
C13 4P
C2 50V2.2
C1 22P
R1 1200
R2 470K
R3 82K
C3 1000P
C4 560P
C5 50V1
R4 8200
C8 8P
R7 1500
R10 1KB
C10 6P
C11 0P
C7 100P
R5 120
C6 0.01
C35 0.01
C12 0.01
C36 0.01
C28 1000P
R30 8200
C29 27P
R31 8200
R32 390
C31 2P
C30 1.5P
C32 14P
C33 3P
C34 VC
UO-1

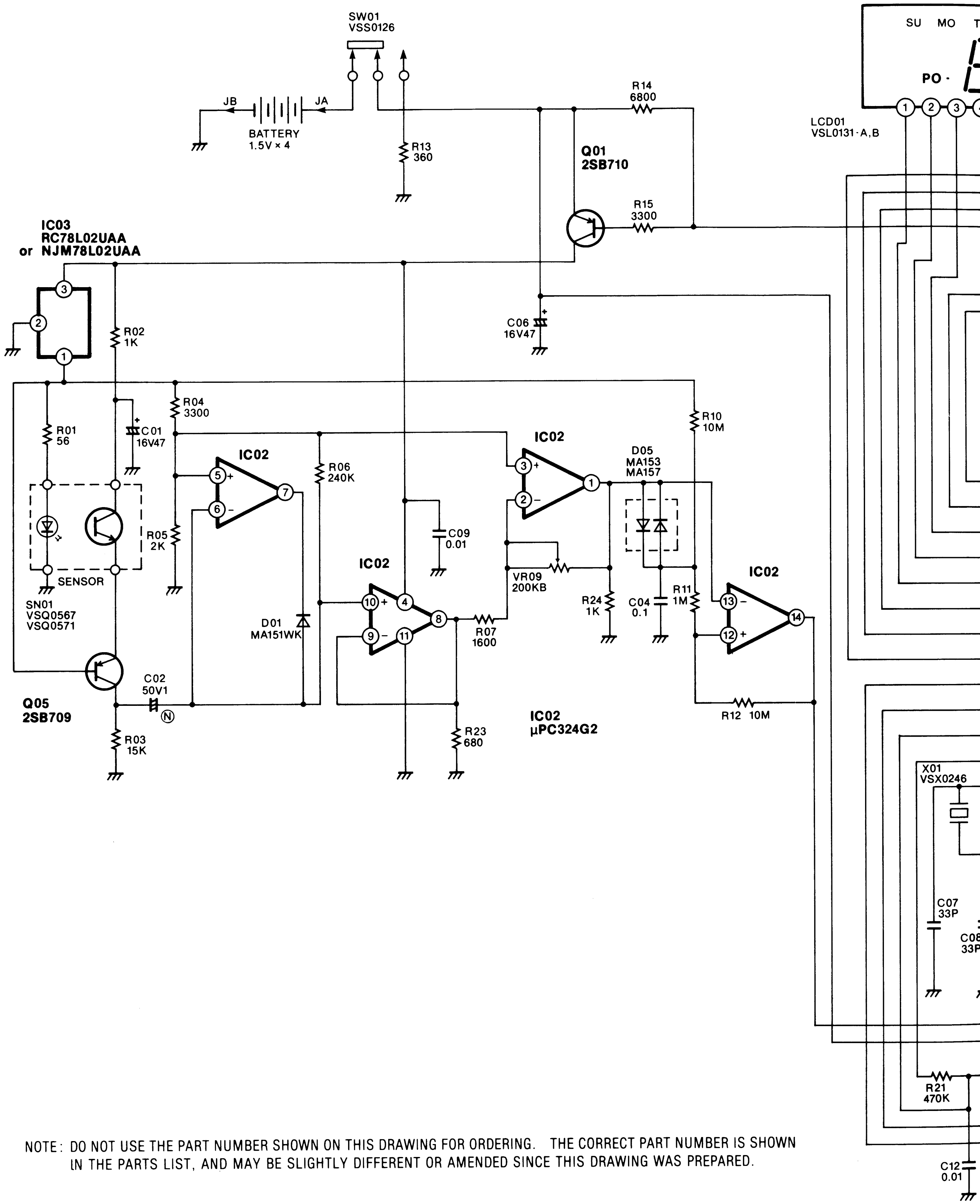
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-35. RF CONVERTER SCHEMATIC DIAGRAM (ENC87962: NV-G45B)


RF IN
VTR OUT
RF OUT
B1 (2)
BS1 (4)
GND (7)
VIDEO IN (3)
AUDIO IN (5)
B2 (6)
GND (1)
SW1
FL1
Q1 2SC2570
Q2 2SC2570
Q3 2SC3130
IC1 LA7051
D1 MA1075
D2 HSM88AS
D3 MA166
D4 MA75WK
D5 MA166
T1
T2
T3
T4
L1 82μ
L2
L3 1μ
L4
L5
L6
L7
L8
R15 2700
C14 560P
R14 270
R12 47
R13 56
C13 56P
C36 1P
R16 750
R17 12
C15 15P
C16 3P
C17 560P
R18 220
R19 10
R20 220
C19 560P
R32 3900
C21 560P
C22 56P
R27 270
R21 150
C18 560P
R22 220
R23 2700
R28 150
R30 3900
R24 750
R25 15
C20 15P
R29 220
R10 150
C24 0.01
C25 0.01
C23 0.01
C26 0.01
C27 0P
R31 1000
C28 18P
R6 3900
R8 100
C9 5P
R9 150
C2 50V2.2
C1 22P
R1 1200
R2 470K
R3 82K
C3 1000P
C4 560P
C5 50V1
R4 7500
C8 9P
R7 3300
R11 1KB
C10 5P
C11 4P
C7 100P
R5 120
C6 0.01
C12 0.01
C29 1000P
R33 8200
C30 27P
R34 8200
R35 750
C32 2P
C31 1.5P
C33 14P
C34 1P
C35 VC
UO-1

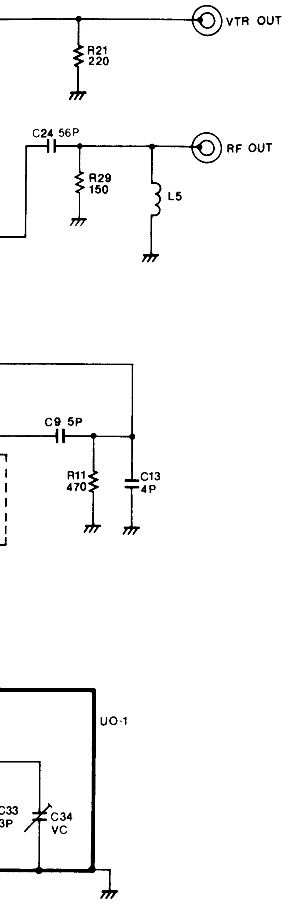
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-36. DIGITAL SCANNER SCHEMATIC DIAGRAM
— UNIT NO.: VEQ0691 (NV-G45EG), VEQ0692 (NV-G45B) —


SW01 VSS0126
JB
JA
BATTERY 1.5V × 4
R13 360
R14 6800
Q01 2SB710
R15 3300
LCD01 VSL0131-A,B
SU
MO
PO·
IC03 RC78L02UAA or NJM78L02UAA
R02 1K
C06 16V47
R01 56
C01 16V47
R04 3300
R10 10M
IC02
D05 MA153 MA157
R06 240K
R05 2K
C09 0.01
SENSOR
SN01 VSQ0567 VSQ0571
D01 MA151WK
R07 1600
VR09 200KB
R24 1K
C04 0.1
R11 1M
Q05 2SB709
C02 50V1
R03 15K
R23 680
IC02 μPC324G2
R12 10M
X01 VSX0246
C07 33P
R21 470K
C12 0.01

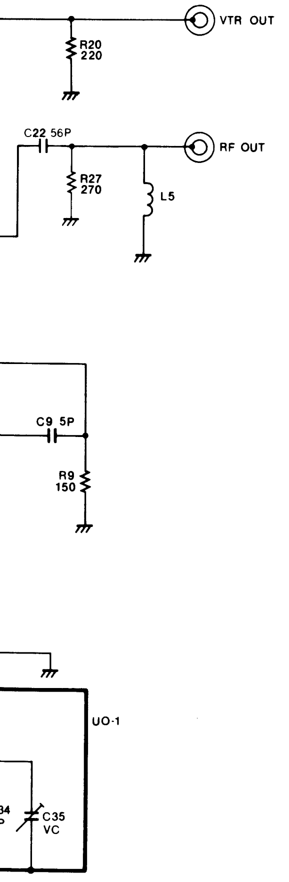
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NV-G45EG)



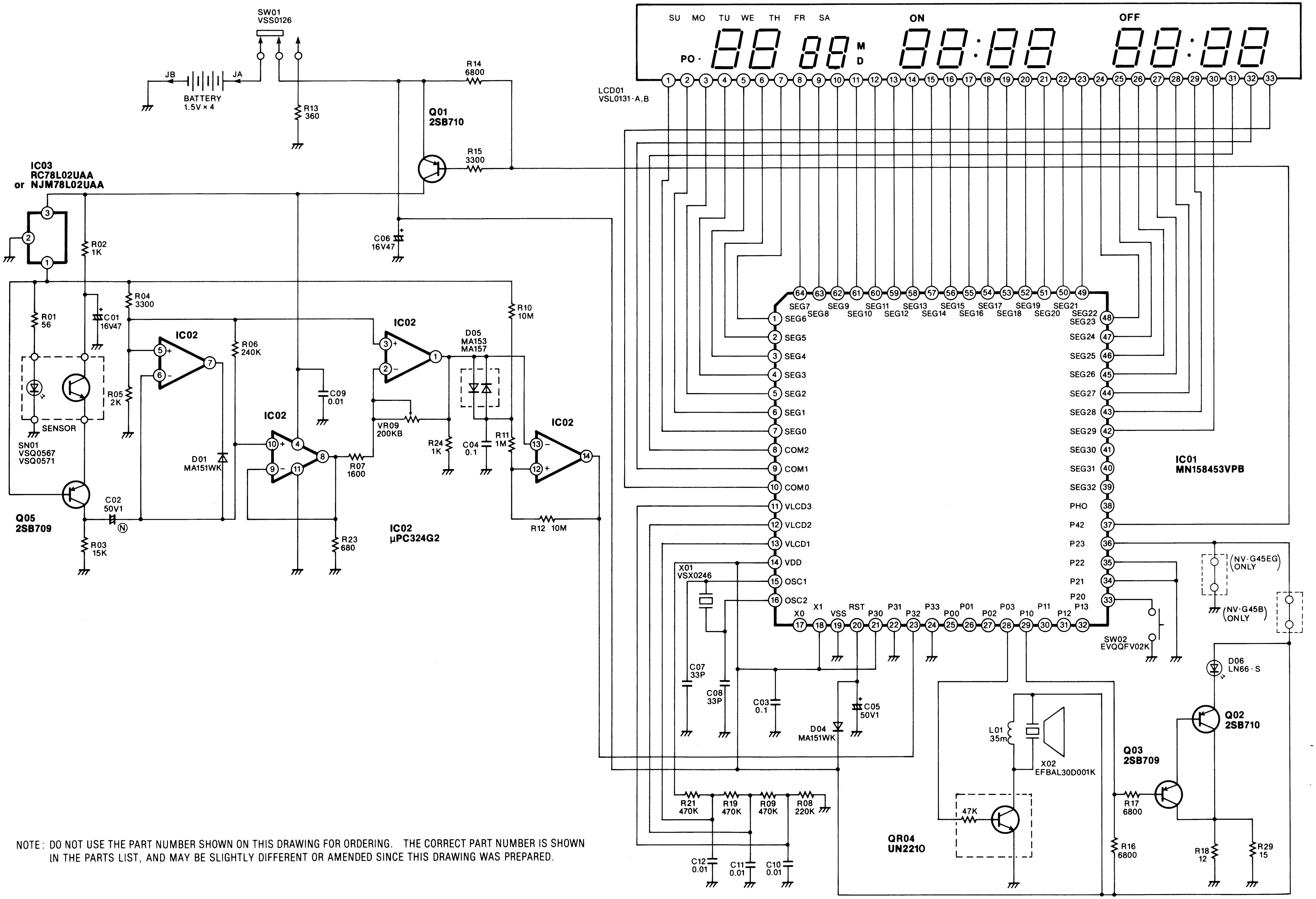
VTR OUT
R21 220
C24 56P
RF OUT
R29 150
L5
C9 5P
R11 470
C13 4P
UO-1
C33 3P
C34 VC

NV-G45B)



VTR OUT
R20 220
C22 56P
RF OUT
R27 270
L5
C9 5P
R9 150
UO-1
C35 VC

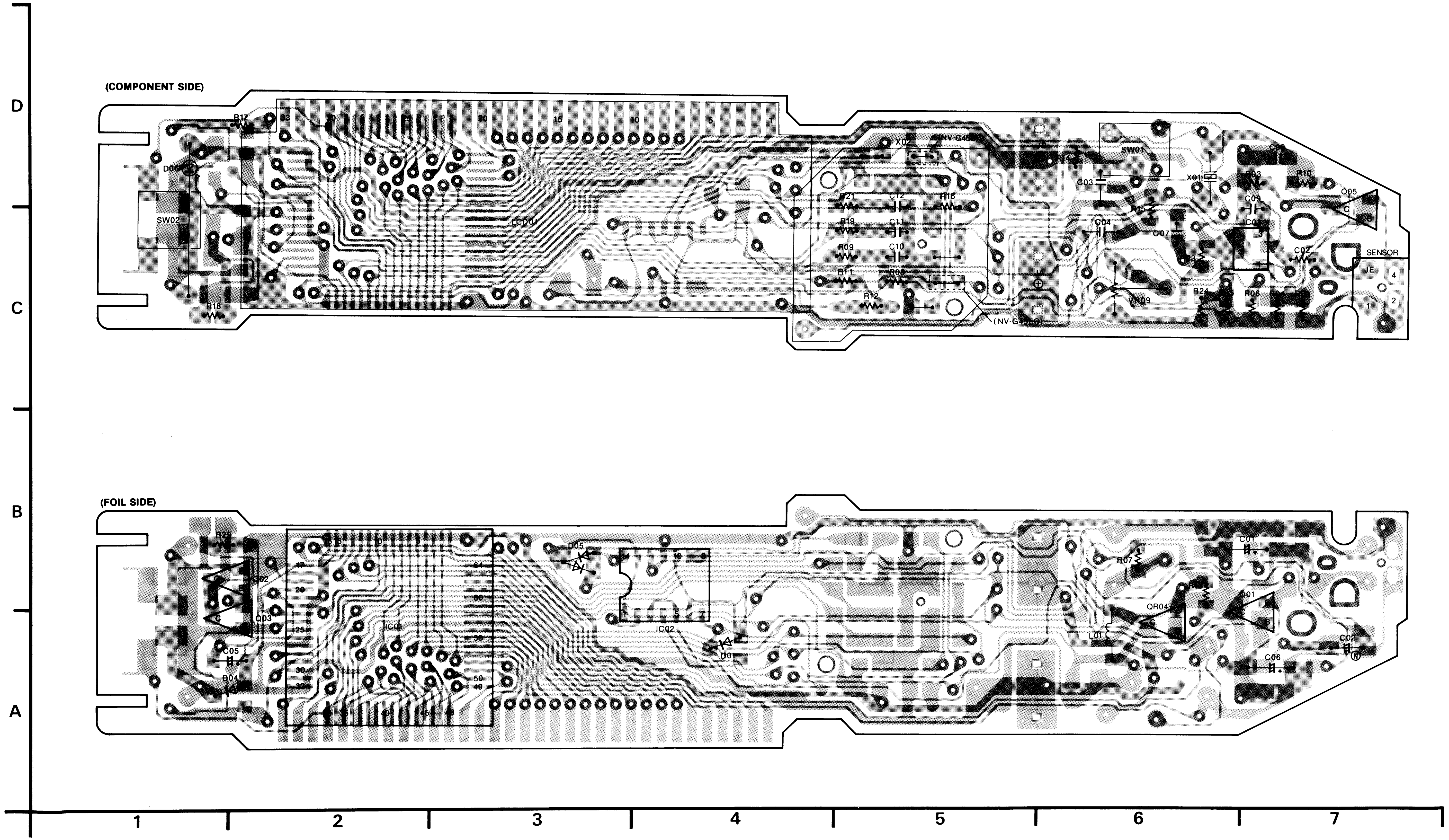
3-36. DIGITAL SCANNER SCHEMATIC DIAGRAM
— UNIT NO.: VEQ0691 (NV-G45EG), VEQ0692 (NV-G45B) —



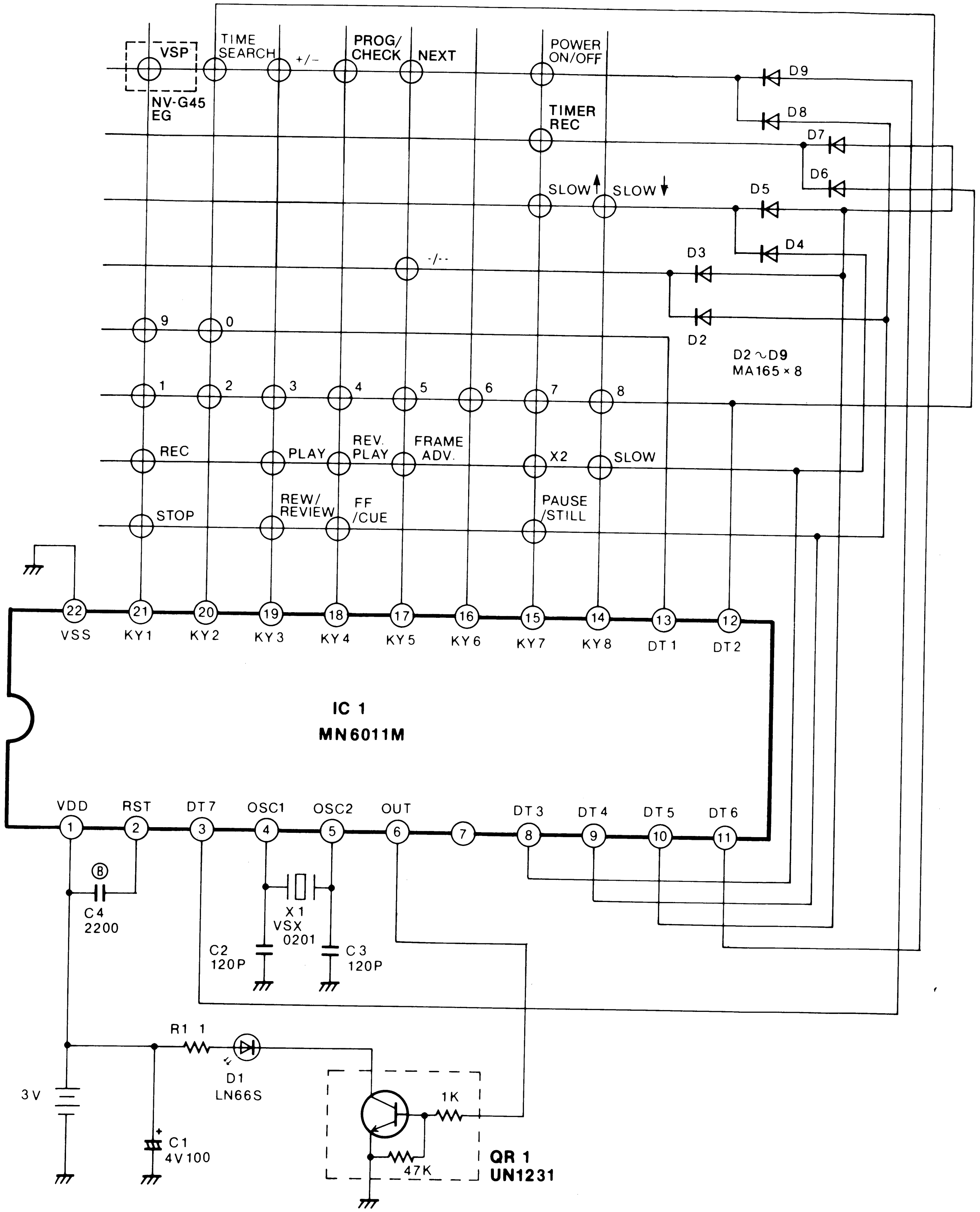
SW01
VSS0126
JB
JA
BATTERY
1.5V × 4
R13
360
R14
6800
Q01
2SB710
R15
3300
C06
16V47
IC03
RC78L02UAA
or NJM78L02UAA
R02
1K
R01
56
C01
16V47
SENSOR
SN01
VSQ0567
VSQ0571
Q05
2SB709
R03
15K
C02
50V1
R04
3300
R05
2K
IC02
R06
240K
D01
MA151WK
C09
0.01
R07
1600
R23
680
IC02
µPC324G2
VR09
200KB
D05
MA153
MA157
R24
1K
C04
0.1
R10
10M
R11
1M
R12 10M
LCD01
VSL0131-A,B
SU MO TU WE TH FR SA
ON
OFF
PO·
M
D
SEG7 SEG9 SEG11 SEG13 SEG15 SEG17 SEG19 SEG21
SEG6 SEG8 SEG10 SEG12 SEG14 SEG16 SEG18 SEG20 SEG22
SEG23
SEG5
SEG4
SEG3
SEG2
SEG1
SEG0
COM2
COM1
COM0
VLCD3
VLCD2
VLCD1
VDD
OSC1
OSC2
X1 X0 VSS RST P30 P31 P32 P33 P00 P01 P02 P03 P10 P11 P12 P13
SEG24
SEG25
SEG26
SEG27
SEG28
SEG29
SEG30
SEG31
SEG32
PHO
P42
P23
P22
P21
P20
IC01
MN158453VPB
(NV-G45EG ONLY)
(NV-G45B ONLY)
SW02
EVQQFV02K
D06
LN66-S
Q02
2SB710
Q03
2SB709
X01
VSX0246
C07
33P
C08
33P
C03
0.1
D04
MA151WK
C05
50V1
L01
35m
X02
EFBAL30D001K
47K
QR04
UN2210
R17
6800
R16
6800
R18
12
R29
15
R21
470K
R19
470K
R09
470K
R08
220K
C12
0.01
C11
0.01
C10
0.01

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-37. DIGITAL SCANNER C.B.A. (VEP66039C: NV-G45EG) (VEP66039B: NV-G45B)


(COMPONENT SIDE)
(FOIL SIDE)
D
C
B
A
1
2
3
4
5
6
7
R17
D06
SW02
R18
LCD01
X02
(NV-G45B)
R21
R19
R09
R11
R08
R12
C12
C11
C10
R16
(NV-G45EG)
R14
C03
C04
SW01
R15
VR09
X01
R03
R10
C09
C08
IC03
C07
Q05
C
B
C02
SENSOR
JE
R24
R06
1
2
4
R20
Q02
Q03
C05
D04
IC01
D05
IC02
D01
R07
QR04
L01
Q01
C01
C06
C02

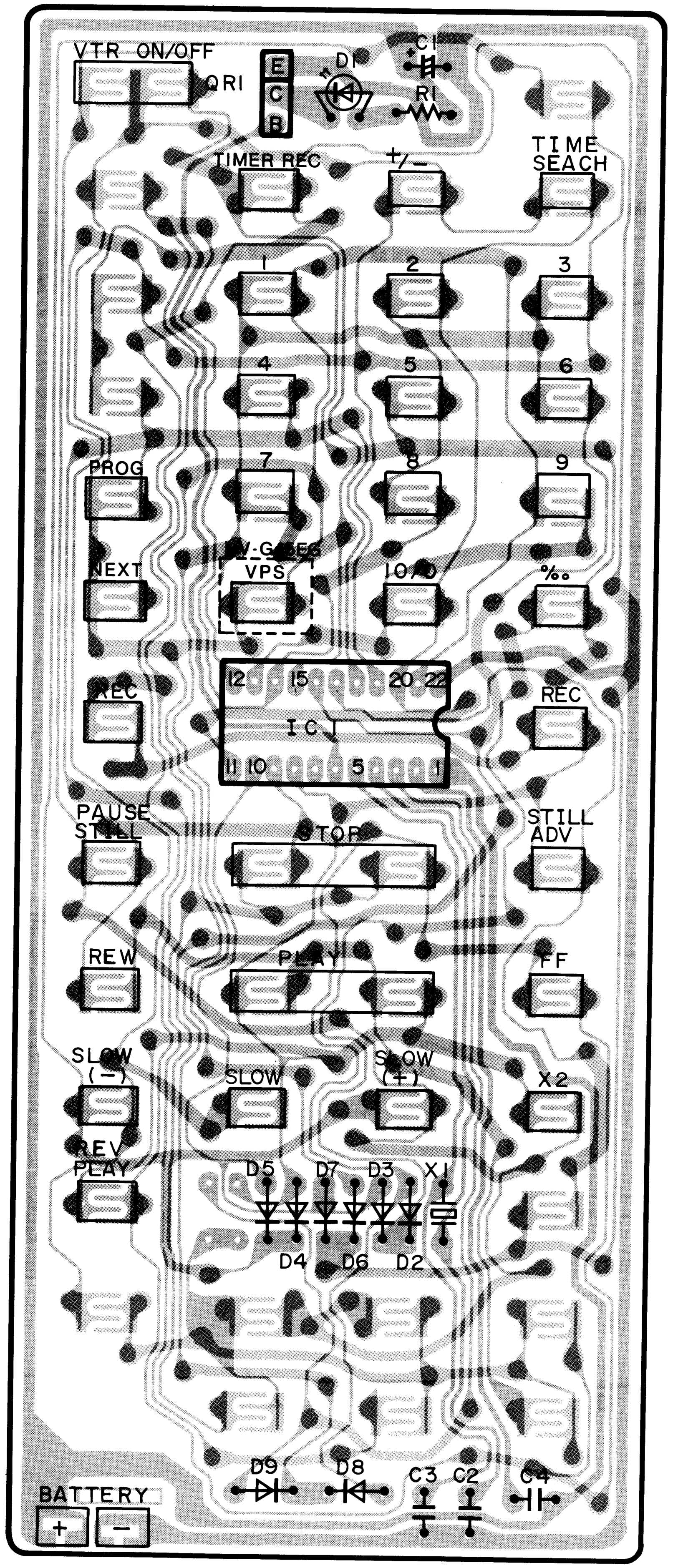
3-38. REMOTE CONTROLLER SCHEMATIC DIAGRAM
— UNIT NO.: VEQ0721 (NV-G45EG), VEQ0720 (NV-G45B) —


VSP
NV-G45 EG
TIME SEARCH
+/-
PROG/ CHECK
NEXT
POWER ON/OFF
TIMER REC
SLOW↑
SLOW↓
-/--
9
0
1
2
3
4
5
6
7
8
REC
PLAY
REV. PLAY
FRAME ADV.
X2
SLOW
STOP
REW/ REVIEW
FF /CUE
PAUSE /STILL
D9
D8
D7
D6
D5
D4
D3
D2
D2~D9 MA165×8
22 VSS
21 KY1
20 KY2
19 KY3
18 KY4
17 KY5
16 KY6
15 KY7
14 KY8
13 DT1
12 DT2
IC 1
MN6011M
1 VDD
2 RST
3 DT7
4 OSC1
5 OSC2
6 OUT
7
8 DT3
9 DT4
10 DT5
11 DT6
Ⓑ
C4 2200
X1 VSX 0201
C2 120P
C3 120P
R1 1
D1 LN66S
3V
C1 4V100
1K
47K
QR 1 UN1231

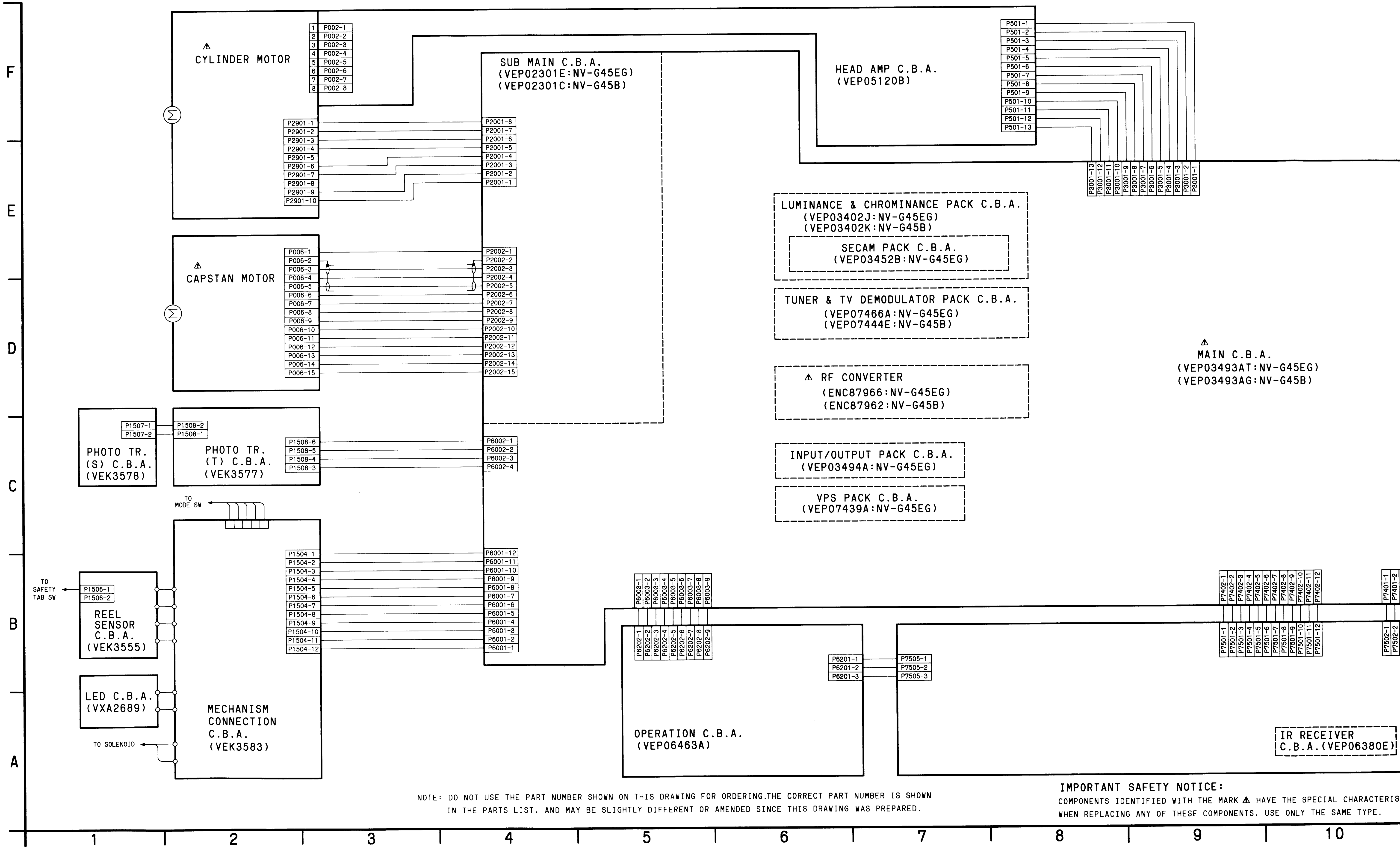
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

Back Page:
DIGITAL SCANNER Section

3-39. REMOTE CONTROLLER C.B.A. (VEP66030A)


VTR ON/OFF
QR1
E
C
B
D1
C1
R1
TIMER REC
+/−
TIME SEACH
1
2
3
4
5
6
7
8
9
PROG
NEXT
NV-G45EG
VPS
10/0
%o
REC
IC
12
15
20
22
11
10
5
1
REC
PAUSE STILL
STOP
STILL ADV
REW
PLAY
FF
SLOW (−)
SLOW
SLOW (+)
X2
REV PLAY
D5
D7
D3
X1
D4
D6
D2
D9
D8
C3
C2
C4
BATTERY
+
−

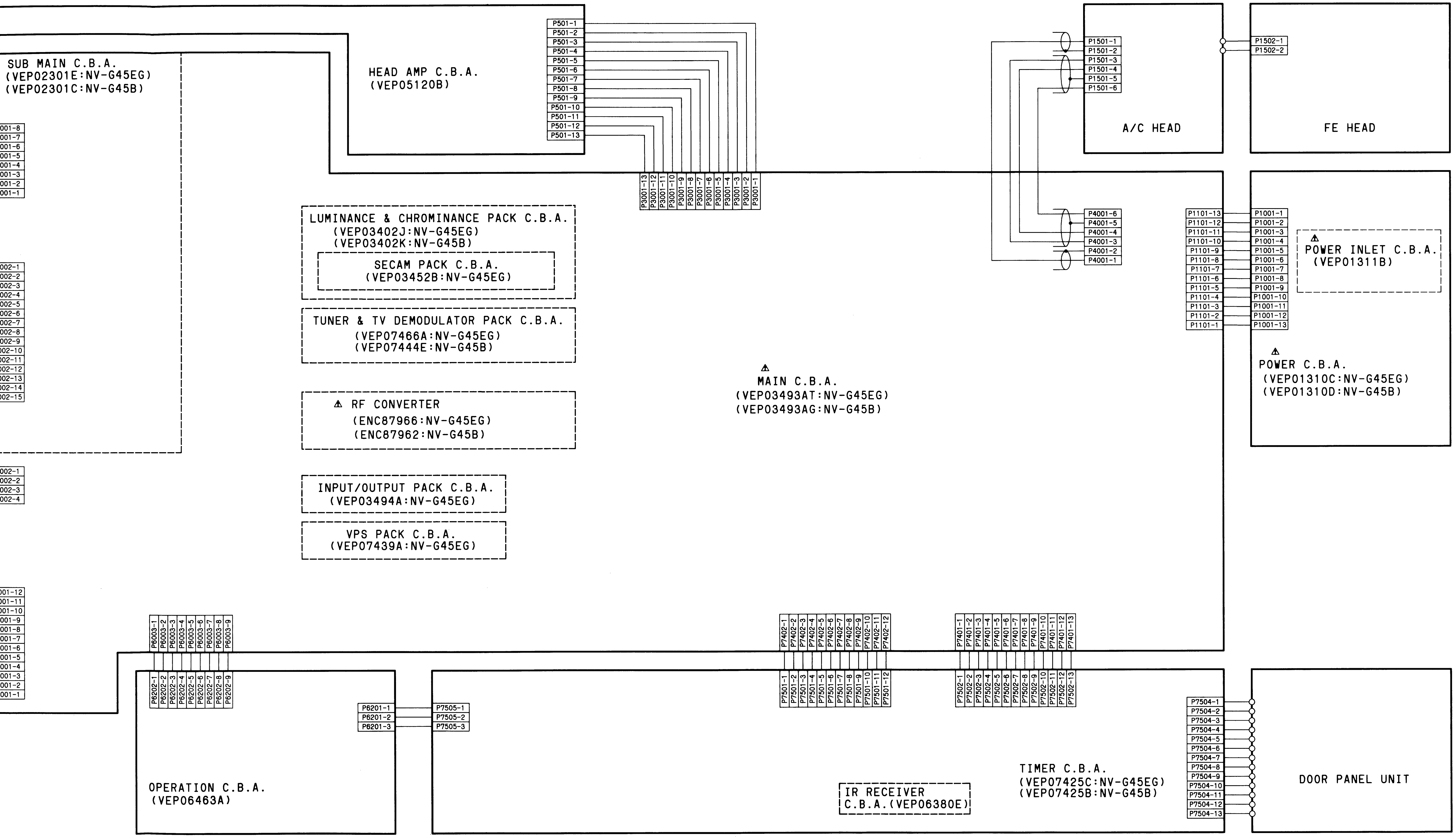
3-40. INTERCONNECTION SCHEMATIC DIAGRAM



F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
⚠ CYLINDER MOTOR
P002-1
P002-2
P002-3
P002-4
P002-5
P002-6
P002-7
P002-8
P2901-1
P2901-10
SUB MAIN C.B.A.
(VEP02301E:NV-G45EG)
(VEP02301C:NV-G45B)
P2001-8
P2001-1
HEAD AMP C.B.A.
(VEP05120B)
P501-1
P501-13
P3001-1
P3001-13
⚠ CAPSTAN MOTOR
P006-1
P006-15
P2002-1
P2002-15
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03402J:NV-G45EG)
(VEP03402K:NV-G45B)
SECAM PACK C.B.A.
(VEP03452B:NV-G45EG)
TUNER & TV DEMODULATOR PACK C.B.A.
(VEP07466A:NV-G45EG)
(VEP07444E:NV-G45B)
⚠ RF CONVERTER
(ENC87966:NV-G45EG)
(ENC87962:NV-G45B)
⚠
MAIN C.B.A.
(VEP03493AT:NV-G45EG)
(VEP03493AG:NV-G45B)
PHOTO TR.
(S) C.B.A.
(VEK3578)
P1507-1
P1507-2
P1508-2
P1508-1
PHOTO TR.
(T) C.B.A.
(VEK3577)
P1508-6
P1508-5
P1508-4
P1508-3
P6002-1
P6002-2
P6002-3
P6002-4
INPUT/OUTPUT PACK C.B.A.
(VEP03494A:NV-G45EG)
VPS PACK C.B.A.
(VEP07439A:NV-G45EG)
TO
MODE SW
TO
SAFETY
TAB SW
P1506-1
P1506-2
REEL
SENSOR
C.B.A.
(VEK3555)
P1504-1
P1504-12
P6001-12
P6001-1
P6003-1
P6003-9
P6202-1
P6202-9
P7402-1
P7402-12
P7401-1
P7401-2
P7501-1
P7501-12
P7502-1
P7502-2
LED C.B.A.
(VXA2689)
TO SOLENOID
MECHANISM
CONNECTION
C.B.A.
(VEK3583)
OPERATION C.B.A.
(VEP06463A)
P6201-1
P6201-2
P6201-3
P7505-1
P7505-2
P7505-3
IR RECEIVER
C.B.A.(VEP06380E)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST. AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERIS
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.


SUB MAIN C.B.A.
(VEP02301E:NV-G45EG)
(VEP02301C:NV-G45B)
001-8
001-7
001-6
001-5
001-4
001-3
001-2
001-1
002-1
002-2
002-3
002-4
002-5
002-6
002-7
002-8
002-9
002-10
002-11
002-12
002-13
002-14
002-15
002-1
002-2
002-3
002-4
001-12
001-11
001-10
001-9
001-8
001-7
001-6
001-5
001-4
001-3
001-2
001-1
HEAD AMP C.B.A.
(VEP05120B)
P501-1
P501-2
P501-3
P501-4
P501-5
P501-6
P501-7
P501-8
P501-9
P501-10
P501-11
P501-12
P501-13
P3001-13
P3001-12
P3001-11
P3001-10
P3001-9
P3001-8
P3001-7
P3001-6
P3001-5
P3001-4
P3001-3
P3001-2
P3001-1
A/C HEAD
P1501-1
P1501-2
P1501-3
P1501-4
P1501-5
P1501-6
FE HEAD
P1502-1
P1502-2
P4001-6
P4001-5
P4001-4
P4001-3
P4001-2
P4001-1
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03402J:NV-G45EG)
(VEP03402K:NV-G45B)
SECAM PACK C.B.A.
(VEP03452B:NV-G45EG)
TUNER & TV DEMODULATOR PACK C.B.A.
(VEP07466A:NV-G45EG)
(VEP07444E:NV-G45B)
⚠ RF CONVERTER
(ENC87966:NV-G45EG)
(ENC87962:NV-G45B)
INPUT/OUTPUT PACK C.B.A.
(VEP03494A:NV-G45EG)
VPS PACK C.B.A.
(VEP07439A:NV-G45EG)
⚠
MAIN C.B.A.
(VEP03493AT:NV-G45EG)
(VEP03493AG:NV-G45B)
P1101-13
P1101-12
P1101-11
P1101-10
P1101-9
P1101-8
P1101-7
P1101-6
P1101-5
P1101-4
P1101-3
P1101-2
P1101-1
P1001-1
P1001-2
P1001-3
P1001-4
P1001-5
P1001-6
P1001-7
P1001-8
P1001-9
P1001-10
P1001-11
P1001-12
P1001-13
⚠
POWER INLET C.B.A.
(VEP01311B)
⚠
POWER C.B.A.
(VEP01310C:NV-G45EG)
(VEP01310D:NV-G45B)
P6003-1
P6003-2
P6003-3
P6003-4
P6003-5
P6003-6
P6003-7
P6003-8
P6003-9
P6202-1
P6202-2
P6202-3
P6202-4
P6202-5
P6202-6
P6202-7
P6202-8
P6202-9
P6201-1
P6201-2
P6201-3
P7505-1
P7505-2
P7505-3
OPERATION C.B.A.
(VEP06463A)
P7402-1
P7402-2
P7402-3
P7402-4
P7402-5
P7402-6
P7402-7
P7402-8
P7402-9
P7402-10
P7402-11
P7402-12
P7501-1
P7501-2
P7501-3
P7501-4
P7501-5
P7501-6
P7501-7
P7501-8
P7501-9
P7501-10
P7501-11
P7501-12
P7401-1
P7401-2
P7401-3
P7401-4
P7401-5
P7401-6
P7401-7
P7401-8
P7401-9
P7401-10
P7401-11
P7401-12
P7401-13
P7502-1
P7502-2
P7502-3
P7502-4
P7502-5
P7502-6
P7502-7
P7502-8
P7502-9
P7502-10
P7502-11
P7502-12
P7502-13
IR RECEIVER
C.B.A.(VEP06380E)
TIMER C.B.A.
(VEP07425C:NV-G45EG)
(VEP07425B:NV-G45B)
P7504-1
P7504-2
P7504-3
P7504-4
P7504-5
P7504-6
P7504-7
P7504-8
P7504-9
P7504-10
P7504-11
P7504-12
P7504-13
DOOR PANEL UNIT

E THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.THE CORRECT PART NUMBER IS SHOWN
TS LIST. AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

IMPORTANT SAFETY NOTICE:

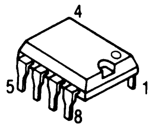
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

4 5 6 7 8 9 10 11 12 13

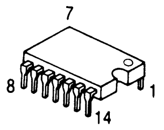
Next Page:
ICs & TRs INFORMATION Section

3-41. ICs & TRs INFORMATION

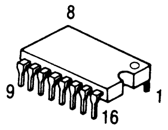
GENERAL CIRCUIT PARTS



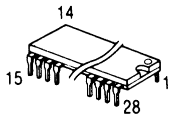
AN6914
µPC358C
AN6552



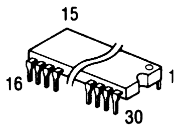
µPD4069UBC
MN4066B



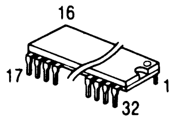
AN5043
MN1226
MN4510B



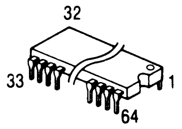
µPD6160CA606
SAA5235



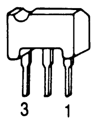
M51366SP
AN3494NK



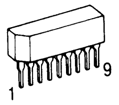
BA7254S
BA7766S



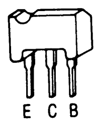
MN15362VPD
MN15283VPY



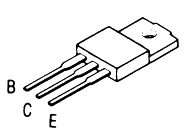
MN1280P
MN1280T



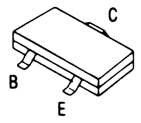
AN5421
AN6913



2SB641
2SB643
2SD636
2SD638
2SD1330
2SD973



2SD1273
2SD1275



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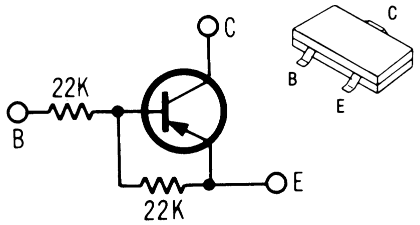
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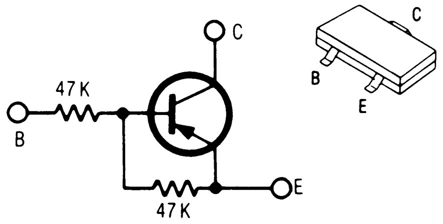
UN2112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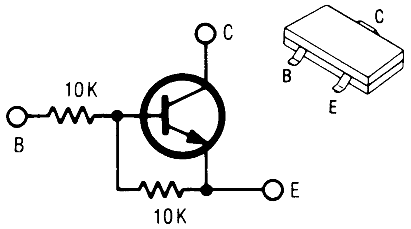
UN2113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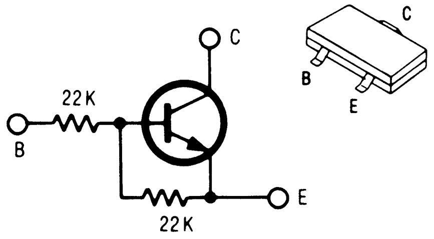
UN2211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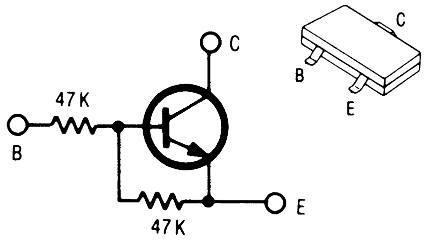
UN2212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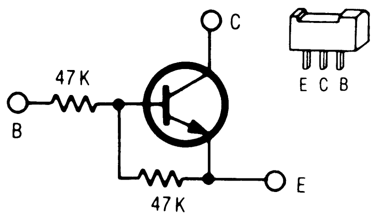
UN2213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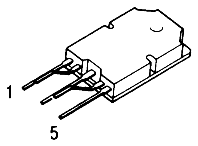
DTC144EA

POWER



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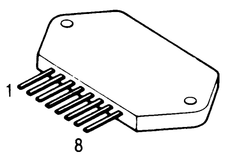

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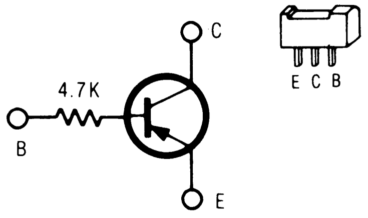
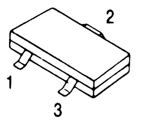
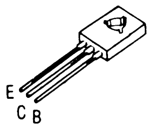


DTA143TV

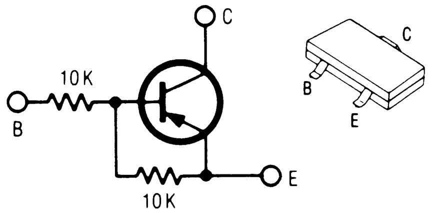
SYSTEM CONTROL Section



MN12821R



2SD893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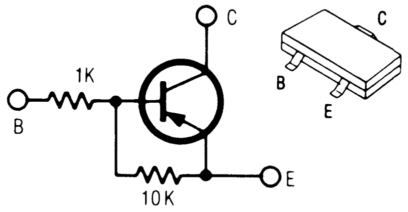
10K
E
C
B
E

UN2111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10K
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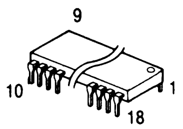
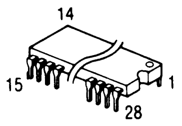
C
B
E

UN2119

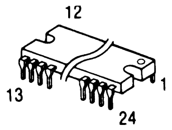
SUB MAIN



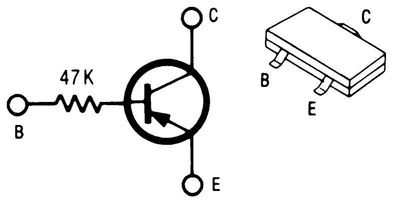
AN3814K



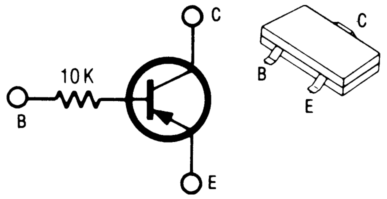
MN15312VPL



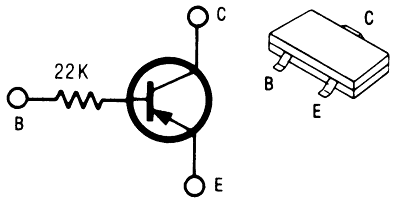
BA6432S



UN2110

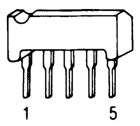


UN2115



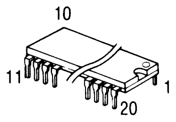
UN2117

LUMINANCE & CHROMINANCE Section

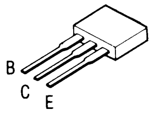


BA7004

INPUT/OUTPUT PACK

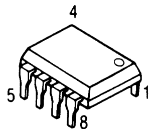


M5202AP



2SA1309

LUMINANCE & CHROMINANCE PACK



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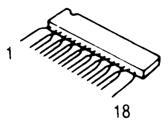

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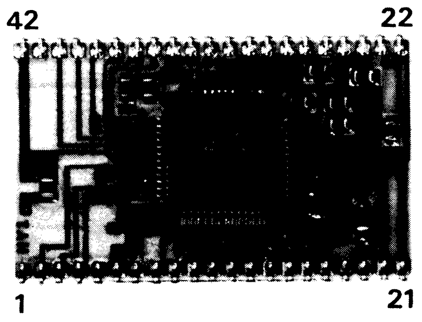
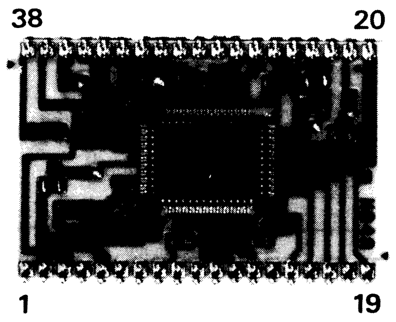
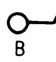


VEFH03D

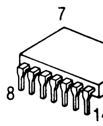


VEFH04A



TUNER & TV I

VPS



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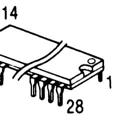

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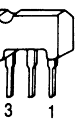

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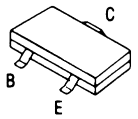
N1280T



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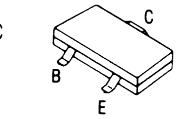

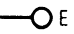

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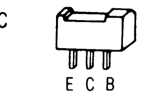

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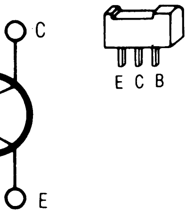
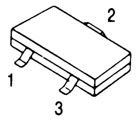


3TV

SYSTEM CONTROL Section



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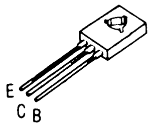

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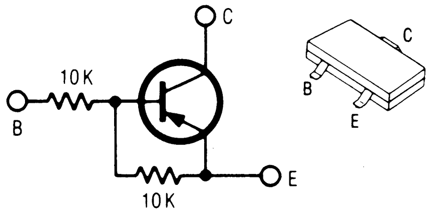
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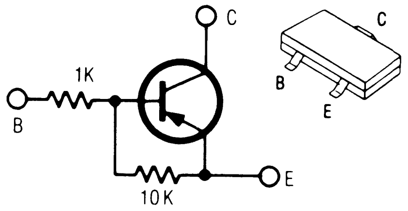
10K
C
B
E

UN2111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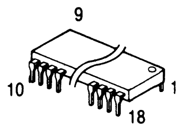
10K
C
B
E

UN2119

SUB MAIN



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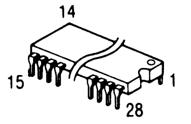

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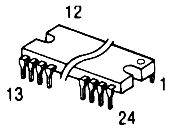

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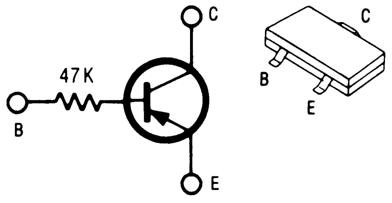
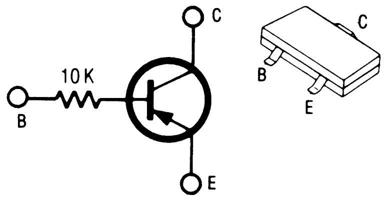


UN2110



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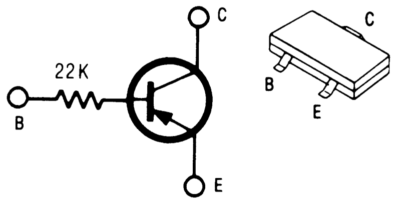
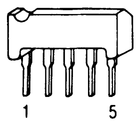


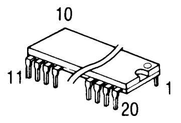
UN2117

LUMINANCE & CHROMINANCE Section

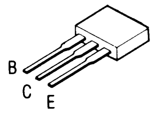


BA7004

INPUT/OUTPUT PACK

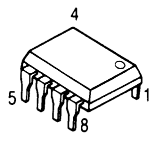


M5202AP



2SA1309

LUMINANCE & CHROMINANCE PACK



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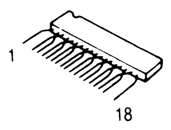
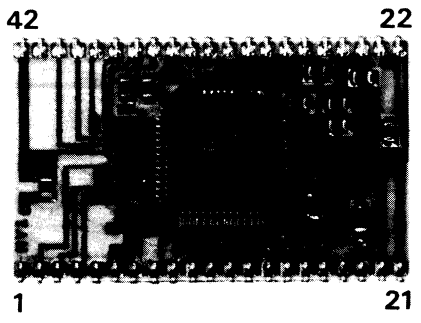


BA7025L



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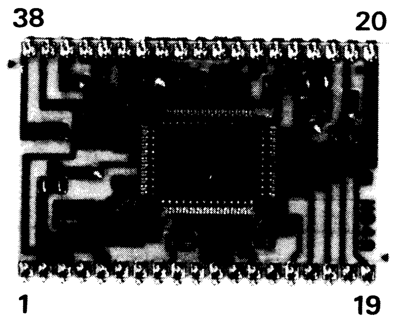
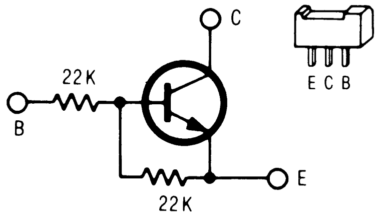


VEFH04A

AUDIO Section


C
22K
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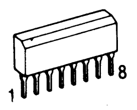
E
22K
E C B

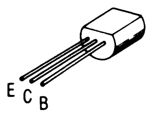
DTC124EA

TIMER



μPC1490HA

TUNER & TV DEMODULATOR PACK



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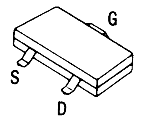
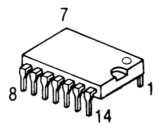
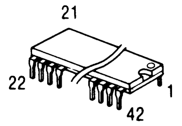


2SK198

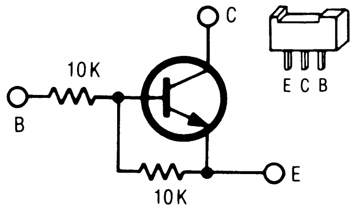
VPS



SAF1135P

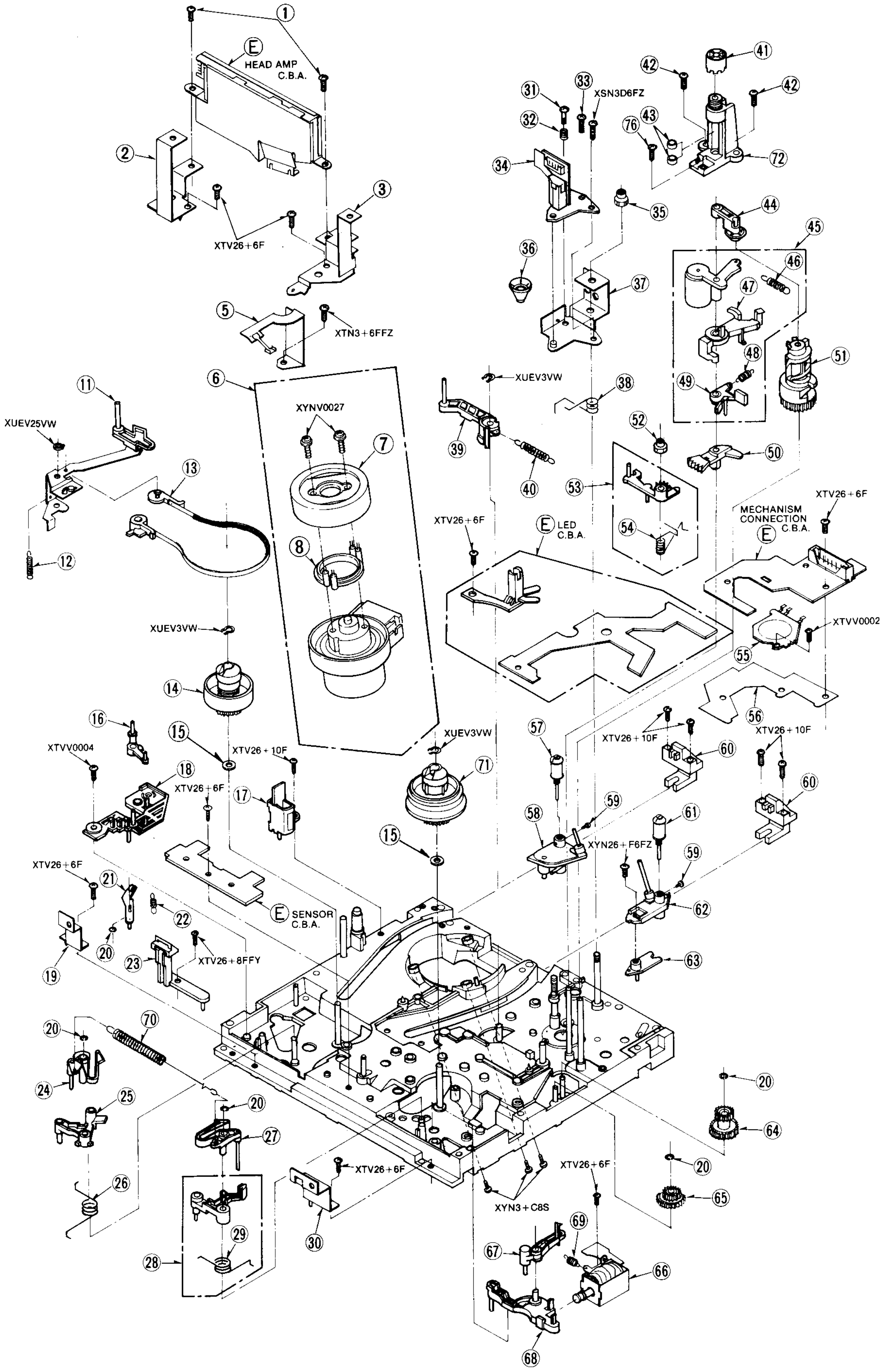


MN158412VYR


C
10K
B
E
10K
E C B

DTC114EA

SECTION 4
EXPLODED VIEWS & PARTS LIST
4-1. EXPLODED VIEW ❶ CHASSIS PARTS SECTION (1)



①
Ⓔ HEAD AMP C.B.A.
②
③
XTV26+6F
⑤
XTN3+6FFZ
⑥
XYNV0027
⑦
⑧
⑪
XUEV25VW
⑫
⑬
XUEV3VW
⑭
⑮
⑯
XTVV0004
⑰
XTV26+10F
⑱
XTV26+6F
XTV26+6F
⑲
⑳
㉑
㉒
㉓
XTV26+8FFY
Ⓔ SENSOR C.B.A.
⑳
㉔
㉕
⑳
㉖
㉗
㉘
㉙
㉚
XTV26+6F
㉛
㉜
㉝
XSN3D6FZ
㉞
㉟
㊱
㊲
XUEV3VW
㊳
㊴
㊵
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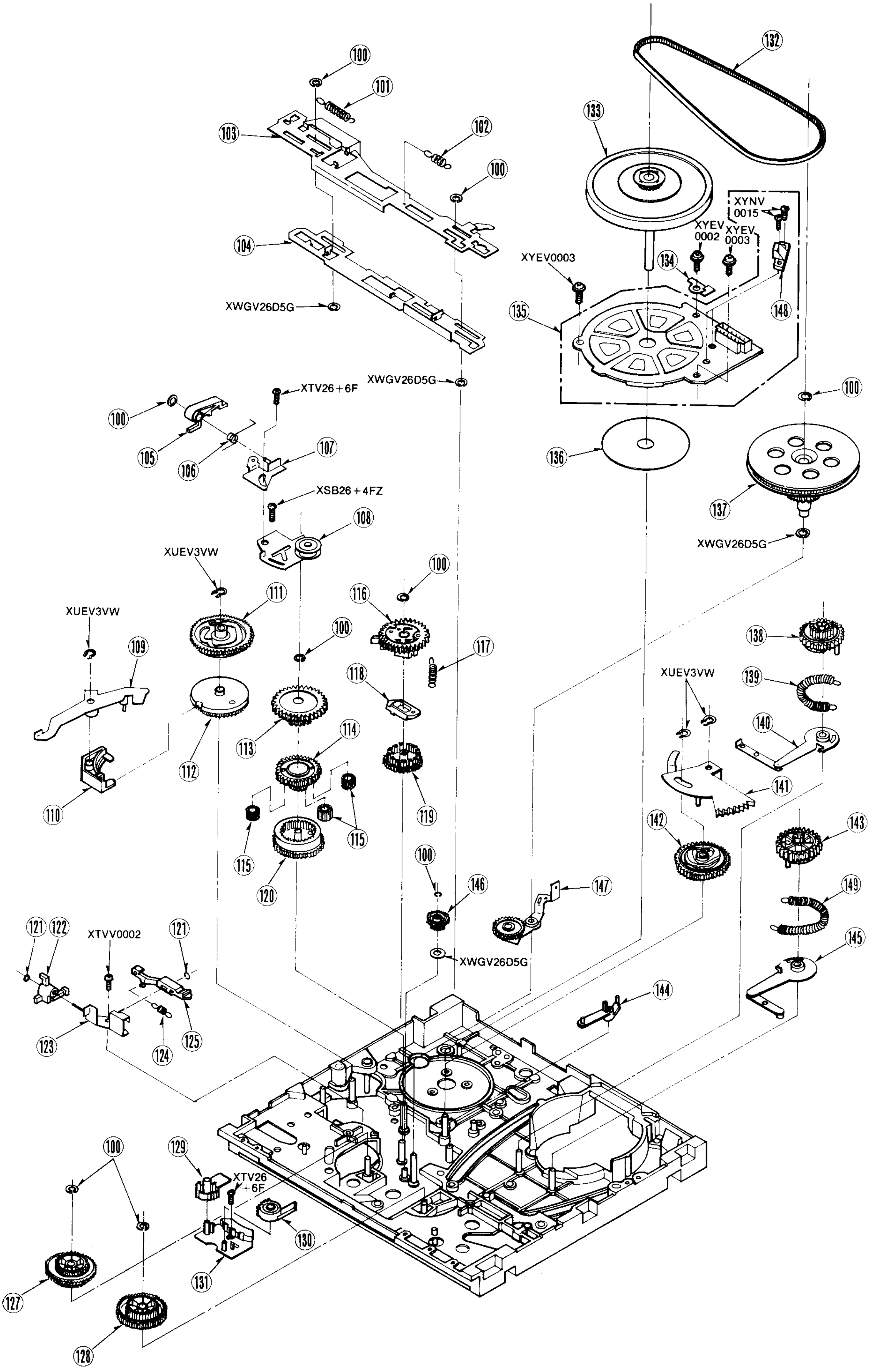
㊷
㊷
㊸
(76)
(72)
㊹
㊺
㊻
㊼
㊽
㊾
㊿
(51)
(52)
(53)
(54)
XTV26+6F
Ⓔ LED C.B.A.
MECHANISM CONNECTION Ⓔ C.B.A.
XTV26+6F
XTVV0002
(55)
(56)
XUEV3VW
(71)
⑮
(57)
XTV26+10F
(60)
XTV26+10F
(60)
(58)
(59)
(61)
XYN26+F6FZ
(59)
(62)
(63)
(70)
⑳
(64)
⑳
(65)
XYN3+C8S
XTV26+6F
(69)
(67)
(66)
(68)

❷ CHASSIS PARTS SECTION (2)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XYEV
0002
XYEV
0003
XYEV0003
134
104
135
148
XWGV26D5G
XWGV26D5G
XTV26+6F
100
100
105
106
107
136
137
XSB26+4FZ
108
XWGV26D5G
XUEV3VW
100
111
116
XUEV3VW
109
100
117
118
138
XUEV3VW
139
140
113
112
114
110
119
141
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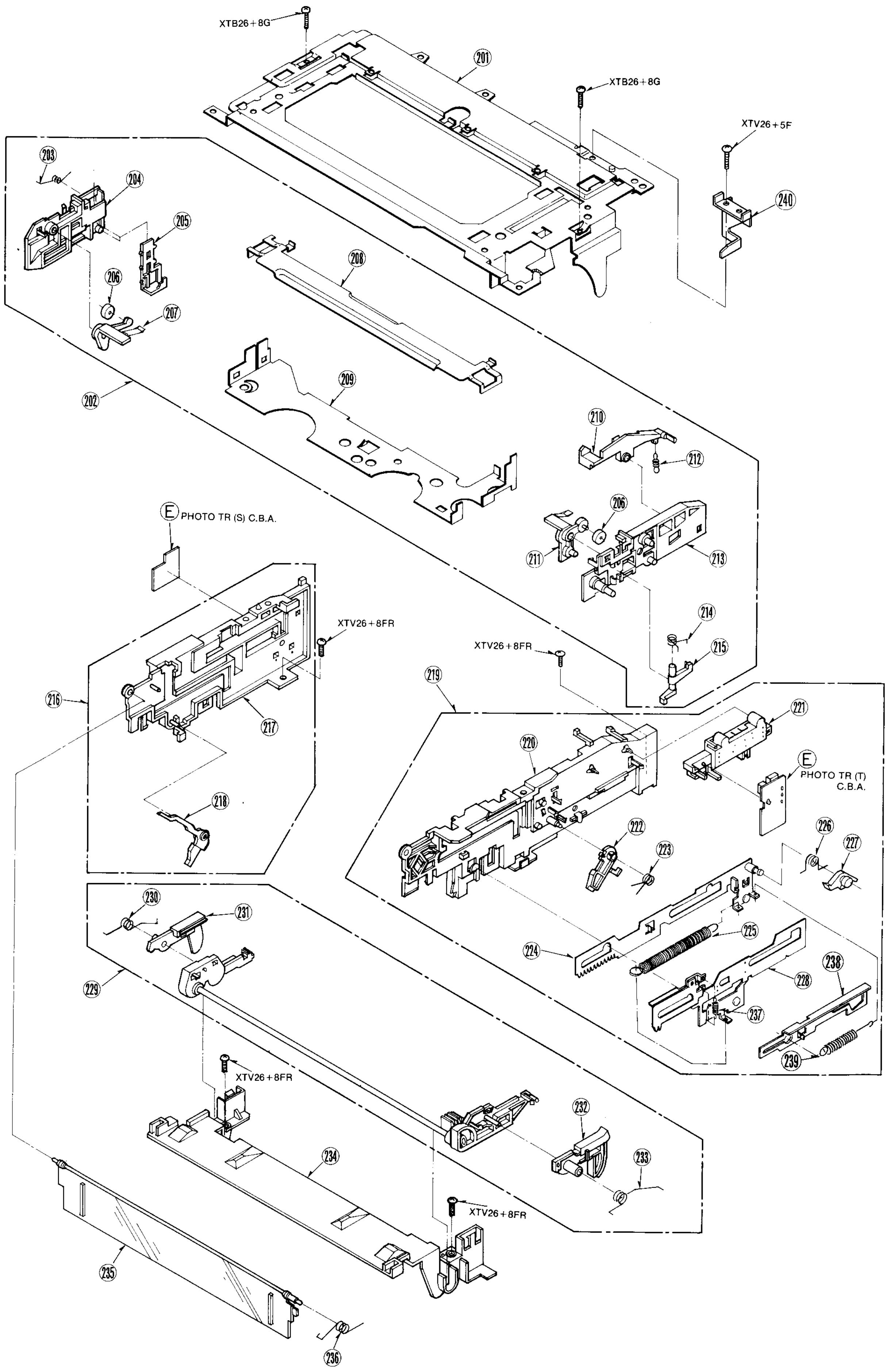
142
143
120
100
146
147
149
121
122
XTVV0002
121
145
XWGV26D5G
144
123
124
125
100
129
XTV26
+6F
130
131
127
128

❸ CASSETTE UP MECHANISM SECTION


XTB26+8G
201
XTB26+8G
XTV26+5F
240
203
204
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202
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212
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214
215
E PHOTO TR (S) C.B.A.
XTV26+8FR
XTV26+8FR
219
216
217
218
220
221
E PHOTO TR (T) C.B.A.
222
223
226
227
224
225
228
238
237
239
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XTV26+8FR
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234
XTV26+8FR
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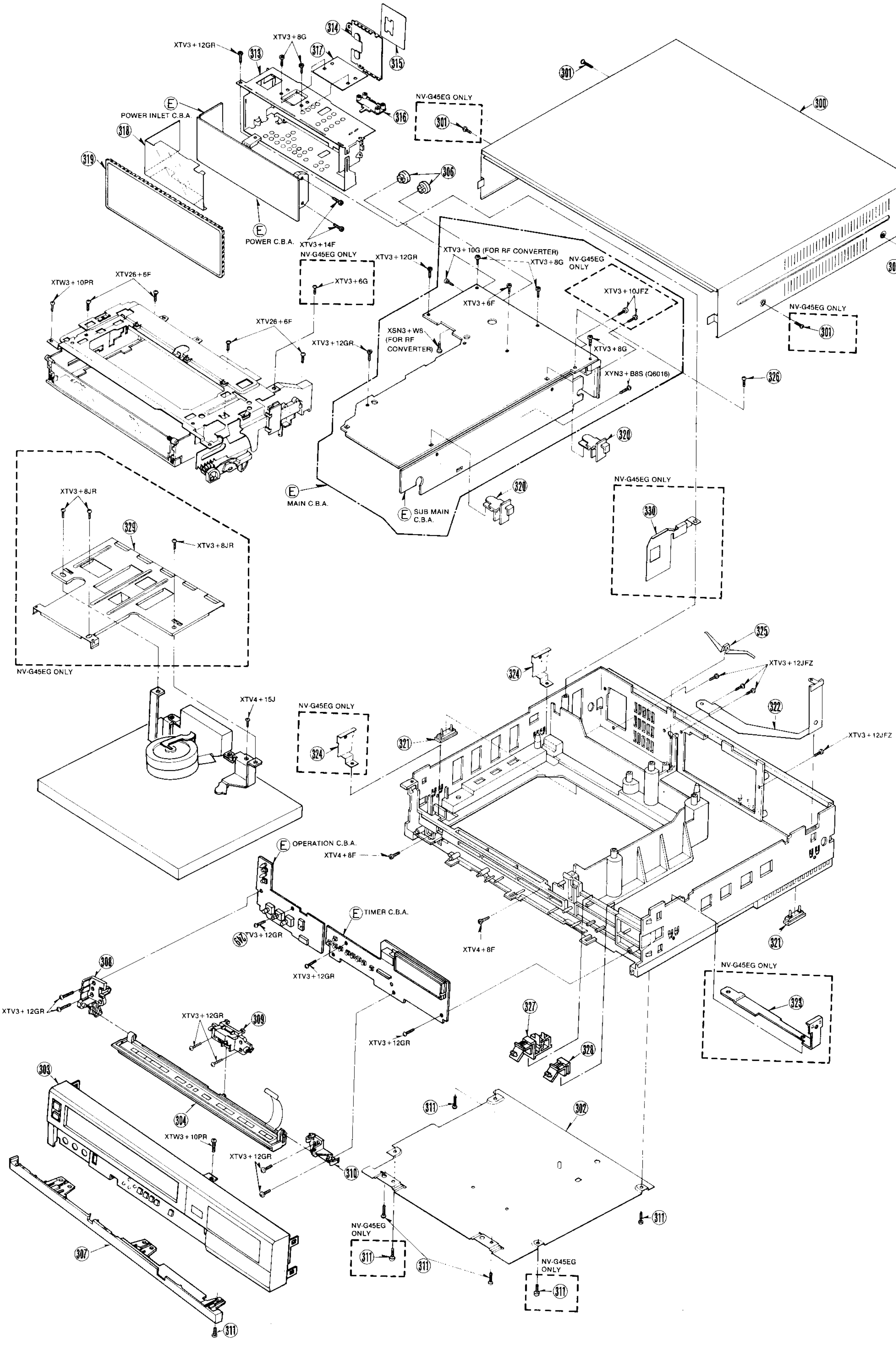
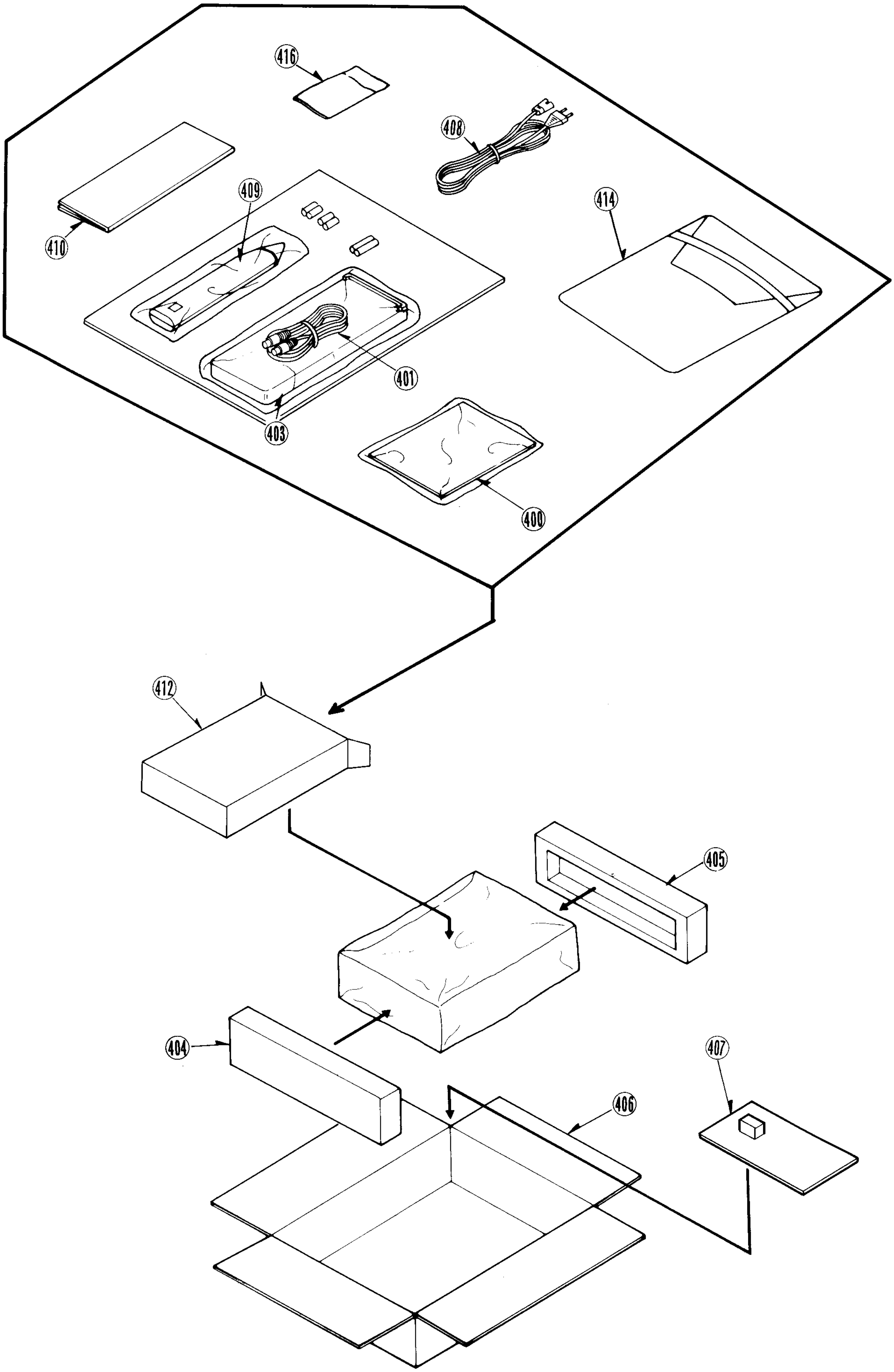
236

❹ CASING PARTS SECTION



XTV3+12GR
XTV3+8G
314
317
315
313
316
301
300
NV-G45EG ONLY
301
POWER INLET C.B.A
318
319
306
POWER C.B.A.
XTV3+14F
E
NV-G45EG ONLY
XTV3+6G
XTV3+12GR
XTV3+10G (FOR RF CONVERTER)
XTV3+8G
NV-G45EG ONLY
XTV3+10JFZ
301
NV-G45EG ONLY
301
XTW3+10PR
XTV26+6F
XTV26+6F
XTV3+12GR
XTV3+6F
XSN3+W6 (FOR RF CONVERTER)
XTV3+8G
XYN3+B8S (Q6016)
326
320
320
MAIN C.B.A.
SUB MAIN C.B.A.
XTV3+8JR
329
XTV3+8JR
NV-G45EG ONLY
NV-G45EG ONLY
330
325
324
XTV3+12JFZ
322
XTV3+12JFZ
XTV4+15J
NV-G45EG ONLY
324
321
OPERATION C.B.A.
XTV4+8F
TIMER C.B.A.
XTV3+12GR
XTV3+12GR
XTV4+8F
321
NV-G45EG ONLY
323
308
XTV3+12GR
XTV3+12GR
309
XTV3+12GR
327
328
303
304
311
302
XTW3+10PR
XTV3+12GR
310
311
NV-G45EG ONLY
311
311
NV-G45EG ONLY
311
307
311

❺ PACKING PARTS SECTION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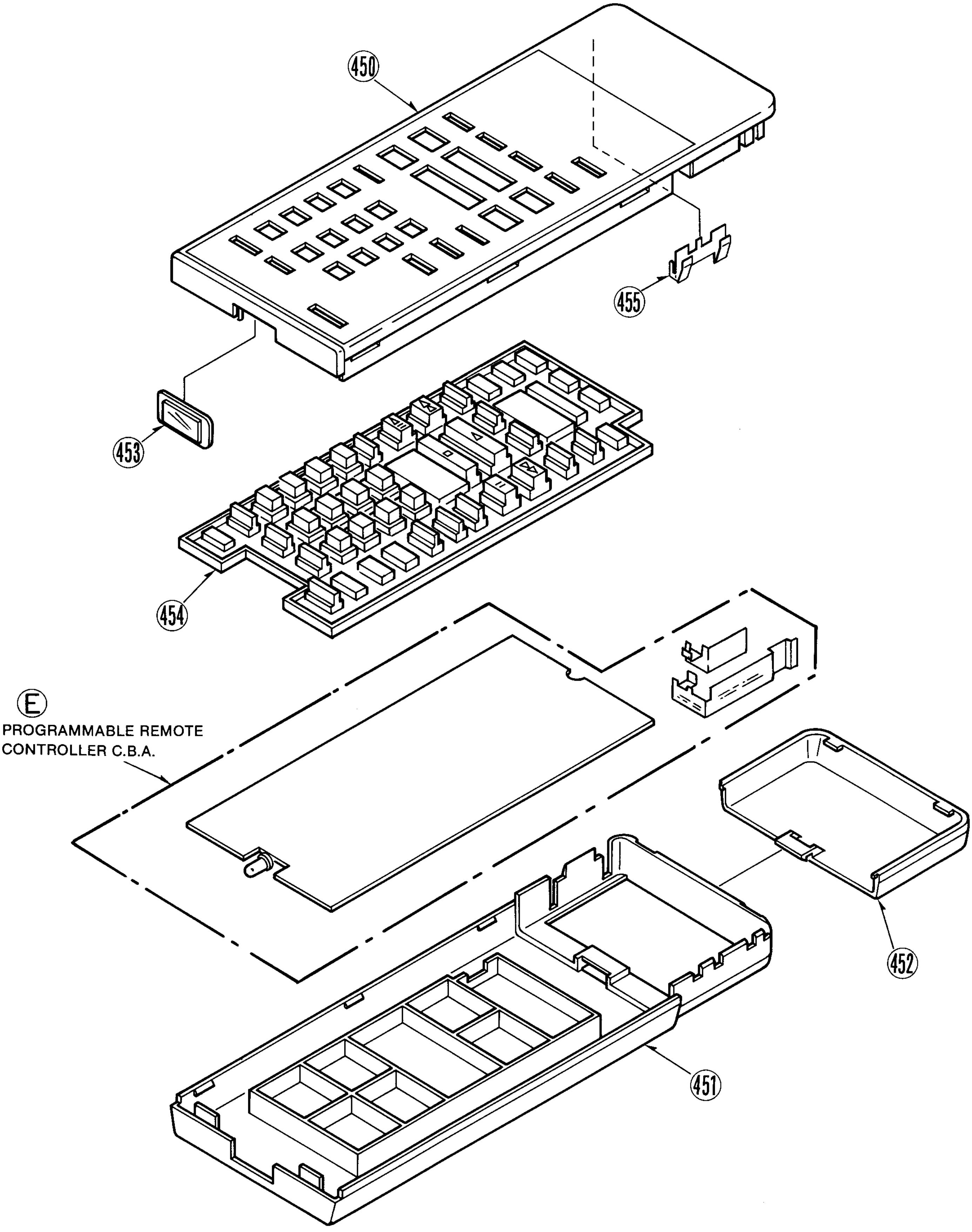
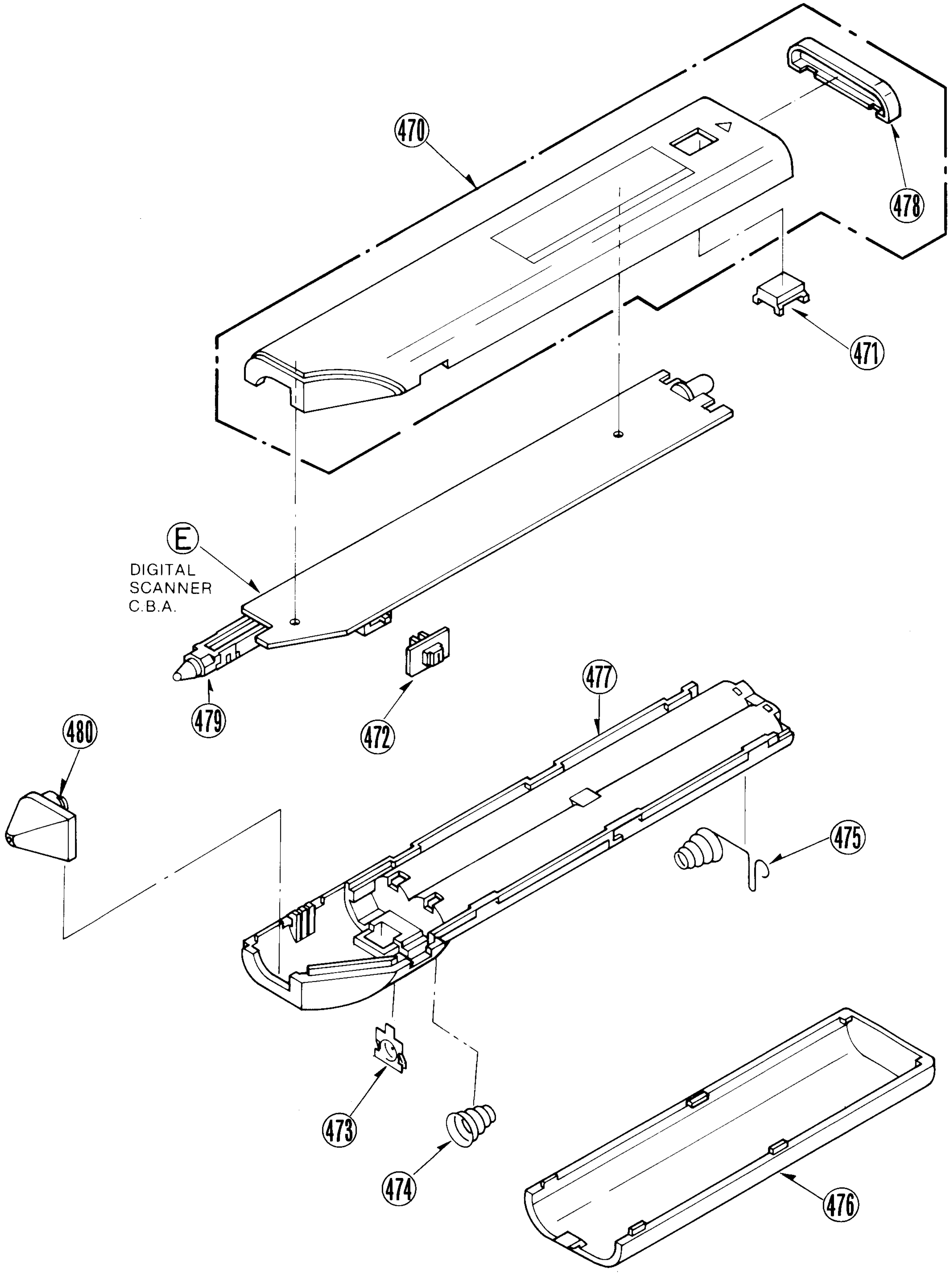
❻ REMOTE CONTROLLER UNIT



450
455
453
454
Ⓔ
PROGRAMMABLE REMOTE CONTROLLER C.B.A.
452
451

❼ DIGITAL SCANNER


470
478
471
E
DIGITAL
SCANNER
C.B.A.
479
472
477
480
475
473
474
476

ORDER NO. VRD8801M102
(Date of issue: FEB, 1988)

PARTS LIST

MODEL NO: NV-G45EG/B

1.NV-G45EG/B Mechanical Replacement Parts List

※This parts list is detachable from the manual.

Note: 1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VHD0141	HEAD AMP SET SCREW	2	
2(1)		VMA6897	HEAD AMP MOUNT ANGLE (L)	1	
3(1)		VMA6898	HEAD AMP MOUNT ANGLE (R)	1	
5(1)		VXS0073	EARTH PLATE UNIT	1	
6(1)		VEG0599	CYLINDER UNIT	1	<!>
7(1)		VEH0385	UPPER CYLINDER UNIT	1	
8(1)		VJR0082	RT TERMINAL	1	
11(1)		VXL1495	TENSION ARM (1) UNIT	1	
12(1)		VMB1563	TENSION SPRING	1	
13(1)		VXZ0225	TENSION BAND UNIT	1	
14(1)		VXR0145	SUPPLY REEL TABLE UNIT	1	
15(1)		VMX1171	REEL WASHER (0.5mm)	2	
15(1)		VMX1239	REEL WASHER (0.3mm)	2	
15(1)		VMX1238	REEL WASHER (0.2mm)	2	
16(1)		VXL1496	TENSION RELEASE ARM(A)UNIT	1	
17(1)		VBS0038	FE HEAD	1	
18(1)		VXA2705	TENSION ARM BASE (1) UNIT	1	
19(1)		VMA6895	MOUNT ANGLE (L)	1	
20(1)		VMX1079	CUT WASHER	3	
21(1)		VXL1497	TENSION RELEASE ARM(B)UNIT	1	
22(1)		VMB1582	TENSION RELEASE SPRING	1	
23(1)		VES0350	SAFETY SW	1	
24(1)		VXZ0229	SUPPLY MAIN BRAKE UNIT	1	
25(1)		VXZ0228	SUPPLY SOFT BRAKE(1)UNIT	1	
26(1)		VMB1564	SUPPLY SOFT BRAKE SPRING	1	
27(1)		VXZ0231	TAKE UP MAIN BRAKE UNIT	1	
28(1)		VXZ0221	TAKE UP SOFT BRAKE UNIT	1	
29(1)		VMB1561	TAKE UP SOFT BRAKE SPRING	1	
30(1)		VMA6896	MOUNT ANGLE (R)	1	
31(1)		VHD0322	ADJUST SCREW	1	
32(1)		VMB1251	ADJUST SPRING	1	
33(1)		VHD0089B	AZIMUTH ADJUST SCREW	1	
34(1)		VBR0132	A/C HEAD	1	
35(1)		VHN0063	M4 NYLON NUT	1	
36(1)		VHN0050	ADJUST NUT	1	
37(1)		VXA2675	HEAD BASE UNIT	1	
38(1)		VMB1567	A/C HEAD SPRING	1	
39(1)		VXL1480	SUB LOADING ARM (1) UNIT	1	
40(1)		VMB1566	SUB POST SPRING	1	
41(1)		VXQ0006	THRUST SCREW UNIT	1	
42(1)		VHD0317	HOUSING SCREW	2	
43(1)		VMX1033	OIL SEAL	2	
44(1)		VMX1353	PINCH CAM CAP	1	
45(1)		VXL1743	PRESSURE ROLLER UNIT	1	
46(1)		VMB1568	PIN PRESSURE SPRING	1	
47(1)		VML1873	PINCH PRESSURE ARM	1	
48(1)		VMB1569	PINCH PRESSURE ARM RELEASE	1	
			SPRING		
49(1)		VML1874	PINCH LIFT ARM	1	
50(1)		VDG0357	P5 PULL OUT SECTOR GEAR	1	
51(1)		VDG0421	PINCH CAM	1	
52(1)		VHN0023	M3 NYLON NUT	1	
53(1)		VXL1485	P5 UNIT	1	
54(1)		VMB1554	P5 SPRING	1	
55(1)		VSS0175	MODE SW	1	
56(1)		VSC1851	SHIELD PLATE	1	
57(1)		VXP0863	ROLLER POST UNIT	1	
58(1)		VXA2729	INCLIND BASE (S)(1)UNIT	1	
59(1)		VHD0133	ROLLER POST SCREW	2	
60(1)		VMD0910	POST STOPPER	2	
61(1)		VXP0764A	ROLLER POST UNIT	1	
62(1)		VXA2686	INCLIND BASE(T)(1)UNIT	1	
63(1)		VXA2687	INCLIND ADJUST PLATE UNIT	1	
64(1)		VDG0483	PINCH SPEED DOWN GEAR	1	
65(1)		VDG0332	CONNECTION GEAR	1	
66(1)		VXA2693	SOLENOID	1	
67(1)		VXA2692	KICK ROD UNIT	1	
68(1)		VML1849	SOLENOID LEVER (1) UNIT	1	
69(1)		VMB1553	KICK ROD SPRING	1	
70(1)		VMB1565	MAIN BRAKE SPRING	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
71(1)		VXR0146	TAKE UP REEL TABLE UNIT	1	
72(1)		VXD0101	HOUSING UNIT	1	
76(1)		VHD0374	HOUSING SCREW	1	
100(2)		VMX1079	CUT WASHER	9	
101(2)		VMB1583	TAKE UP SOFT BRAKE RELEASE	1	
			ARM SPRING		
102(2)		VMB1560	MAIN LEVER SPRING	1	
103(2)		VXA2701	MAIN LEVER (1) UNIT	1	
104(2)		VMM0160	SUB LEVER	1	
105(2)		VXL1500	SS BRAKE ARM UNIT	1	
106(2)		VMB1588	SS BRAKE SPRING	1	
107(2)		VXA2707	SS BRAKE BASE (1) UNIT	1	
108(2)		VXA2674	TENSION ROLLER UNIT	1	
109(2)		VXL1632	CAM FOLLOWER ARM UNIT	1	
110(2)		VML1861	DETENT ARM	1	
111(2)		VDG0346	MAIN CAM GEAR	1	
112(2)		VDG0343	SUB CAM GEAR	1	
113(2)		VDG0348	CENTRE GEAR	1	
114(2)		VDG0422	RETAINER GEAR	1	
115(2)		VDG0345	PLANET GEAR	3	
116(2)		VDG0349	CLUTCH DISK	1	
117(2)		VMB1558	CLUTCH SPRING	1	
118(2)		VDG0350	LOCK SLIDE GEAR	1	
119(2)		VDG0335	DRIVE DISK	1	
120(2)		VDG0342	RING GEAR	1	
121(2)		VMX0967	CUT WASHER	2	
122(2)		VML1859	CHANGE LEVER	1	
123(2)		VXA2672	RELEASE LEVER (1) UNIT	1	
124(2)		VMB1557	RELEASE SPRING	1	
125(2)		VML1860	RELEASE LEVER	1	
127(2)		VXP0923	TAKE UP REEL GEAR UNIT	1	
128(2)		VDG0445	SUPPLY REEL GEAR	1	
129(2)		VML1858	RETURN LEVER (R)	1	
130(2)		VML1857	RETURN LEVER (L)	1	
131(2)		VMD0913	STOPPER BASE	1	
132(2)		VDV0169	TIMING BELT	1	
133(2)		VXP0777	ROTOR UNIT	1	
134(2)		VMA6998	ROTOR STOPPER	1	
135(2)		VEK2944	STATOR UNIT	1	<!>
136(2)		VMA6847	SUB PLATE	1	
137(2)		VXP0917	CENTRE PULLEY UNIT	1	
138(2)		VDG0420	LOADING GEAR (T)	1	
139(2)		VMB1555	LOADING SPRING (T)	1	
140(2)		VXL1489	LOADING ARM (T)(1) UNIT	1	
141(2)		VXA3144	SECTOR GEAR UNIT	1	
142(2)		VDG0448	LOADING CAM GEAR	1	
143(2)		VDG0419	LOADING GEAR (S)	1	
144(2)		VML1855	PLAY CONTROL ARM	1	
145(2)		VXL1487	LOADING ARM (S)(1) UNIT	1	
146(2)		VDG0336	INTERMEDIATE GEAR	1	
147(2)		VXL1490	PLAY ARM UNIT	1	
148(2)		VBK0048	FG HEAD	1	
149(2)		VMB1746	LOADING SPRING(S)	1	
201(3)		VMA7223	TOP PLATE	1	
202(3)		VXA2679	CASSETTE HOLDER UNIT	1	
203(3)		VMB1573	MOUNT LEVER SPRING	1	
204(3)		VMD0919	HOLDER GUIDE (L)	1	
205(3)		VMM0163	MOUNT LEVER	1	
206(3)		VDP1077	ROLLER	2	
207(3)		VML1883	PRESSURE LEVER (L)	1	
208(3)		VMA6902	HOLDER ANGLE	1	
209(3)		VMA6901	CASSETTE HOLDER	1	
210(3)		VML1882	OPENER LEVER	1	
211(3)		VML1884	PRESSURE LEVER (R)	1	
212(3)		VMB1584	OPENER LEVER SPRING	1	
213(3)		VMD0920	HOLDER GUIDE (R)	1	
214(3)		VMB1576	RELEASE SPRING	1	
215(3)		VML1881	RELEASE LEVER	1	
216(3)		VXA2676	SIDE PLATE (L) UNIT	1	
217(3)		VMD0917	SIDE PLATE (L)	1	
218(3)		VML1880	OPENER LEVER	1	
219(3)		VXA3171	SIDE PLATE (R) UNIT	1	
220(3)		VMD0918	SIDE PLATE (R)	1	
221(3)		VSS0176	SLIDE SW	1	
222(3)		VML1886	DOWN SUPPORT LEVER	1	

To guarantee the FUNCTION, SAFETY and RELIABLITY of repaired units, only use ORIGINAL REPLACEMENT PARTS which are listed with their part numbers in this parts list section.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
223(3)		VMB1575	DOWN SUPPORT SPRING	1	
224(3)		VXA3148	RACK (A)(1) UNIT	1	
225(3)		VMB1778	CLUTCH SPRING	1	
226(3)		VMB1772	LOCK SPRING	1	
227(3)		VML1885	LOCK LEVER	1	
228(3)		VXA3147	RACK (B) UNIT	1	
229(3)		VXP0851	MAIN SHAFT UNIT	1	
230(3)		VMB1570	SUB WIPER SPRING (L)	1	
231(3)		VML1878	SUB WIPER ARM	1	
232(3)		VML1879	SUB WIPER ARM (R)	1	
233(3)		VMB1571	SUB WIPER SPRING (R)	1	
234(3)		VMA6900	CASSETTE GUIDE	1	
235(3)		VKF1022	BLINDER PANEL	1	
236(3)		VMB1258	BLINDER SPRING	1	
237(3)		VMB1780	RACK (C) SPRING	1	
238(3)		VMA7237	CONNECTION ROD	1	
239(3)		VMB1779	CONNECTION ROD SPRING	1	
240(3)		VMA7224	CASSETTE HOLDER ANGLE	1	
300(4)		VYP2181	TOP PANEL UNIT	1	NV-G45EG
300(4)		VYP2180	TOP PANEL UNIT	1	NV-G45B
301(4)		VHD0304	TOP PANEL SCREW	4	NV-G45EG
301(4)		VHD0304	TOP PANEL SCREW	2	NV-G45B
302(4)		VKU0245	BOTTOM PLATE	1	
303(4)		VYP2255	FRONT PANEL UNIT	1	NV-G45EG
303(4)		VYP2256	FRONT PANEL UNIT	1	NV-G45B
304(4)		VYF1211	FRONT DOOR UNIT	1	NV-G45EG
304(4)		VYF1212	FRONT DOOR UNIT	1	NV-G45B
306(4)		VMG0272	RF CONVERTER BUSHING	2	
307(4)		VYP1803	FRONT LOWER PANEL UNIT	1	
308(4)		VGQ1084	FRONT DOOR SHAFT (A)	1	
309(4)		VGQ1085	FRONT DOOR SHAFT (B)	1	
310(4)		VGQ1086	FRONT DOOR SHAFT (C)	1	
311(4)		VHD0059	BOTTOM PLATE SCREW	7	NV-G45EG
311(4)		VHD0059	BOTTOM PLATE SCREW	5	NV-G45B
313(4)		VXA3223	POWER SHIELD CASE (MAIN)	1	
314(4)		VSC2351	POWER SHIELD CASE (TOP)	1	
315(4)		VGH1476	NAME PLATE	1	
316(4)		VGQ1377	Tr. HOLDER	1	
317(4)		VMZ1224	INSULATION SHEET	1	<!>
318(4)		VMZ1196	SW BARRIER (A)	1	NV-G45EG <!>
318(4)		VMZ1140	SW BARRIER (A)	1	NV-G45B <!>
319(4)		VSC2237	POWER SHIELD CASE (BOTTOM)	1	
320(4)		VKC0326	MAIN HINGE	2	
321(4)		VKA0026	RUBBER FOOT	2	
322(4)		VMP1038	TOP HOLDER ANGLE (R) (1)	1	
323(4)		VMP1125	TOP HOLDER ANGLE (R) (2)	1	NV-G45EG
324(4)		VMP1037	TOP HOLDER ANGLE (L)	2	NV-G45EG
324(4)		VMP1037	TOP HOLDER ANGLE (L)	1	NV-G45B
325(4)		VMP1547	EARTH ANGLE	1	
326(4)		VHD0141	MAIN C.B.A. SCREW	1	
327(4)		VKC0327	TIMER HINGE (A)	1	
328(4)		VKC0328	TIMER HINGE (B)	1	
329(4)		VSC2524	BCI SHIELD PLATE	1	NV-G45EG
330(4)		VMA7618	EARTH ANGLE	1	NV-G45EG
400(5)		VQT2592	OPERATING INSTRUCTIONS	1	NV-G45EG <!>
			(ENGLISH/GERMAN/GREEK)		
400(5)		VQT2578	OPERATING INSTRUCTIONS	1	NV-G45B <!>
			(ENGLISH)		
401(5)		VJA0376	DIN RF CABLE	1	
403(5)		VEQ0721	REMOTE CONTROL UNIT	1	NV-G45EG
403(5)		VEQ0720	REMOTE CONTROL UNIT	1	NV-G45B
404(5)		VPN2092	CUSHION (L)	1	
405(5)		VPN2091	CUSHION (R)	1	
406(5)		VPG3910	PACKING CASE	1	NV-G45EG
406(5)		VPG3911	PACKING CASE	1	NV-G45B
407(5)		VPN2179	BOTTOM PAD	1	
408(5)		VJA0443	AC CORD	1	NV-G45EG <!>
408(5)		VJA0445	AC CORD	1	NV-G45B <!>
409(5)		VEQ0691	DIGITAL SCANNER	1	NV-G45EG
409(5)		VEQ0692	DIGITAL SCANNER	1	NV-G45B
410(5)		VQC1159	PROGRAMME SHEET	1	NV-G45EG
410(5)		VQC1158	PROGRAMME SHEET	1	NV-G45B
412(5)		VPK0825	ACCESSORIES PACKING CASE	1	
414(5)		VFC0115	DIGITAL SCANNER CASE	1	
416(5)		VQF2115	CLEANING BRUSH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
450(6)		VYK2068	TOP CASE UNIT	1	NV-G45EG
450(6)		VYK2067	TOP CASE UNIT	1	NV-G45B
451(6)		VKM1133	BOTTOM CASE	1	
452(6)		VKF0971	BATTERY COVER	1	
453(6)		VKW0878	IR WINDOW	1	
454(6)		VSP0328	RUBBER CONTACT	1	NV-G45EG
454(6)		VSP0327	RUBBER CONTACT	1	NV-G45B
455(6)		VJR0185	ELECTRODE (COMMON)	1	
470(7)		VYK1992	TOP CASE UNIT	1	NV-G45EG
470(7)		VYK1193	TOP CASE UNIT	1	NV-G45B
471(7)		VGU4099	TRANSMISSION BUTTON	1	
472(7)		VGU4100	POWER SW KNOB	1	
473(7)		VJR0411	ELECTRODE (+)	1	
474(7)		VJR0412	ELECTRODE (-)	1	
475(7)		VJR0272	ELECTRODE (COM)	1	
476(7)		VKF1024	BATTERY CASE	1	
477(7)		VKM1331	BOTTOM CASE	1	
478(7)		VKW0940	SMOKE FILTER	1	
479(7)		VSQ0567	SENSOR UNIT	1	
480(7)		VKM1332	SENSOR CAP	1	
			JIG		
		VFJ8125H3F	VHS-ALIGNMENT TAPE (PAL)	1	
		VFK0335	RETAINING RING REMOVER	1	
			(3mm/4mm)		
		VFK0387	TENSION POST ADJUSTMENT	1	
			PLATE		
		VFK0191	POST ADJUSTMENT PLATE	1	
		VFK0190	REEL TABLE HEIGHT GAUGE	1	
		VFK0328	H-POSITION ADJ.	1	
			SCREWDRIVER		
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK62	FAN TYPE TENSION GAUGE	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK0343	CHECK LIGHT	1	
		VFK0344	HEIGHT ADJUSTMENT JIG	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0283	SERVICE ALIGNMENT TOOL KIT	1	
		VFK0341	UPPER CYLINDER REMOVER	1	
		VEE4250	RF ADJUSTMENT CABLE (220mm)	1	

To guarantee the FUNCTION,SAFETY and RELIABLITY of repaired units,only use ORIGINAL REPLACEMENT PARTS which are listed with their part numbers in this parts list section.

2.NV-G45EG/B Electrical Replacement Parts List

Note:1.* Be sure to make your orders of replacement parts according to this list.

2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

3.Unless otherwise specified,
All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICROFARADS(uf),P=uuF.

4.The P.C.Board units marked width'▮'show below the main assembled parts.

5.Printed circuit board assembly with mark(NLA) is no longer available after discontinuation of the product.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03493AT	MAIN C.B.A.	1	NV-G45EG <!> (NLA)
			(SYSTEM CONTROL, SERVO,		INCLUDING THE
			LUMINANCE & CHROMINANCE,		SUB MAIN C.B.A.
			AUDIO, POWER, CH SELECT,		(VEP02301C),
			TUNER, TV DEMODULATOR)		LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03402J),
					SECAM PACK C.B.A.
					(VEP03452B),
					TV DEMODULATOR PACK
					C.B.A.(VEP07466A),
					INPUT/OUTPUT PACK
					C.B.A.(VEP03494A),
					VPS PACK C.B.A.
					(VEP07439A).
		VEP03493AG	MAIN C.B.A.	1	NV-G45B <!> (NLA)
			(SYSTEM CONTROL, SERVO,		INCLUDING THE
			LUMINANCE & CHROMINANCE,		SUB MAIN C.B.A.
			AUDIO, POWER, CH SELECT,		(VEP02301C),
			TUNER, TV DEMODULATOR)		LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03402K),
					TV DEMODULATOR PACK
					C.B.A.(VEP07444E).
		VEP02301E	SUB MAIN C.B.A.	1	NV-G45EG (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493AT).
		VEP02301C	SUB MAIN C.B.A.	1	NV-G45B (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493AG).
		VEP03402J	LUMINANCE & CHROMINANCE	1	NV-G45EG (NLA)
			PACK C.B.A.		INCLUDING THE
					SECAM PACK C.B.A.
					(VEP03452B).
					INCLUDED IN MAIN
					C.B.A.(VEP03493AT).
		VEP03402K	LUMINANCE & CHROMINANCE	1	NV-G45B (NLA)
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP03493AG).
		VEP03452B	SECAM PACK C.B.A.	1	NV-G45EG (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493AT).
		VEP07466A	TV DEMODULATOR PACK C.B.A.	1	NV-G45EG (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493AT).
		VEP07444E	TV DEMODULATOR PACK C.B.A.	1	NV-G45B (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493AG).
		VEP03494A	INPUT/OUTPUT PACK C.B.A.	1	NV-G45EG (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493AT).
		VEP07493A	VPS PACK C.B.A.	1	NV-G45EG (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493AT).
		VEP05120B	HEAD AMP C.B.A.	1	(NLA)
		VEP07425C	TIMER C.B.A.	1	NV-G45EG (NLA)
					INCLUDING THE
					IR RECEIVER C.B.A.
					(VEP06380E).
		VEP07425B	TIMER C.B.A.	1	NV-G45B (NLA)
					INCLUDING THE
					IR RECEIVER C.B.A.
					(VEP06380E).
		VEP06380E	IR RECEIVER C.B.A.	1	(NLA)
					INCLUDED IN TIMER
					C.B.A.(VEP07425B,
					VEP07425C).
		VEP06463A	OPERATION C.B.A.	1	(NLA)
		VEP01310C	POWER C.B.A.	1	NV-G45EG <!> (NLA)
					INCLUDING THE
					POWER INLET C.B.A.
					(VEP01311B).
		VEP01310D	POWER C.B.A.	1	NV-G45B <!> (NLA)
					INCLUDING THE
					POWER INLET C.B.A.
					(VEP01311B).
		VEP01311B	POWER INLET C.B.A.	1	<!> (NLA)
					INCLUDED IN POWER
					C.B.A.(VEP01310C,
					VEP01310D).
		VEK3583	MECHANISM CONNECTION C.B.A.	1	(NLA)
		VEK3555	REEL SENSOR C.B.A.	1	(NLA)
		VXA2689	LED C.B.A.	1	(NLA)
		VEK3577	TAKE UP PHOTO Tr. C.B.A.	1	(NLA)
		VEK3578	SUPPLY PHOTO Tr. C.B.A.	1	(NLA)
		VEP66030A	REMOTO CONTROL UNIT C.B.A.	1	(NLA)
		VEP66039C	DIGITAL SCANNER C.B.A.	1	NV-G45EG (NLA)
		VEP66039B	DIGITAL SCANNER C.B.A.	1	NV-G45B (NLA)

To guarantee the FUNCTION,SAFETY and RELIABLITY of repaired units,only use ORIGINAL REPLACEMENT PARTS which are listed with their part numbers in this parts list section.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		ENC87966	RF CONVERTER	1	NV-G45EG <!>
		ENC87962	RF CONVERTER	1	NV-G45B <!>
		TNV57481F1	TUNER	1	NV-G45EG <!>
		ENV87806F2	TUNER	1	NV-G45B <!>
F1001		XBA2C16TBO	FUSE 250V 1.6A	1	<!>
	■	VEP03493AT	MAIN C.B.A.		NV-G45EG
	■	VEP03493AG	(SYSTEM CONTROL, SERVO,		NV-G45B
			LUMINANCE & CHROMINANCE,		<!> (NLA)
			AUDIO, POWER, CH SELECT,		INCLUDING THE
			TUNER, TV DEMODULATOR)		SUB MAIN C.B.A.
					(VEP02301C,
					VEP02301E),
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03402J,
					VEP03402K),
					SECAM PACK C.B.A.
					(VEP03452B),
					TV DEMODULATOR PACK
					C.B.A.(VEP07466A,
					VEP07444E),
					INPUT/OUTPUT PACK
					C.B.A.(VEP03494A),
					VPS PACK C.B.A.
					(VEP07439A).
			CAPACITORS		
C301		ECEA1EKN2R2	E.CAPACITOR 25V 2.2U	1	
C302		ECEA1EKA220	E.CAPACITOR 25V 22U	1	
C303		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C304		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C305		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C306		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C307		ECUM1H470JCN	CHIP 50V 47P	1	
C308		ECUM1H220JCN	CHIP 50V 22P	1	
C309		ECUX1H473ZFN	CHIP 50V 0.047U	1	
C310		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C311,12		ECUM1H180JCN	CHIP 50V 18P	2	
C313		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C314		ECUM1H560JCN	CHIP 50V 56P	1	
C315		ECUM1H390JCN	CHIP 50V 39P	1	
C316		ECUM1H820JCN	CHIP 50V 82P	1	
C317		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C318		ECUM1H220JCN	CHIP 50V 22P	1	
C319		ECUM1H471KBN	CHIP 50V 470P	1	
C320		ECUM1H270JCN	CHIP 50V 27P	1	
C321		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C322		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C323,24		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C325,26		ECUM1H103ZFN	CHIP 50V 0.01U	2	
C327,28		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C329		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C331		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C332		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C333		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C334		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C335		ECUM1H680JCN	CHIP 50V 68P	1	
C336		ECUM1H101JCN	CHIP 50V 100P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C337		ECUM1H270JCN	CHIP 50V 27P	1	
C338		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C339		ECUM1H680JCN	CHIP 50V 68P	1	
C340		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C341		ECUM1H331JCN	CHIP 50V 330P	1	
C342-44		ECEA1CK100	E.CAPACITOR 16V 10U	3	
C345		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C346		ECUM1E123KBN	CHIP 25V 0.012U	1	
C347,48		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C349		ECUM1H470JCN	CHIP 50V 47P	1	
C351		ECCF1H220JC	C.CAPACITOR 50V 22P	1	
C352		ECQB1H562JZ	M.CAPACITOR 50V 5600P	1	
C353		ECCF1H330JC	C.CAPACITOR 50V 33P	1	
C701		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	NV-G45EG
C701		ECEA1CK100	E.CAPACITOR 16V 10U	1	NV-G45B
C702		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C705,06		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	2	NV-G45EG
C706		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	NV-G45B
C707		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C708		ECEA1CKS100	E.CAPACITOR 16V 10U	1	NV-G45EG
C710		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C715-20		ECUX1H103ZFN	CHIP 50V 0.01U	6	
C721		ECEA1HKR27	E.CAPACITOR 50V 0.27U	1	
C722		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C723		ECUX1H220JCN	CHIP 50V 22P	1	NV-G45EG
C723		ECUM1H120JCN	CHIP 50V 12P	1	NV-G45B
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C727		ECUX1H080DCN	CHIP 50V 80P	1	NV-G45EG
C728		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C732		ECQV1H224B	M.CAPACITOR 50V 0.22U	1	
C734		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C735		ECUX1H070DCN	CHIP 50V 7P	1	
C736		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C737		ECUX1H151JCN	CHIP 50V 150P	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUX1H030CCN	CHIP 50V 3P	1	
C743		ECUM1H270RSN	CHIP 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUX1H680JPN	CHIP 50V 68P	1	
C746		ECUX1H150JCN	CHIP 50V 15P	1	
C747		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C748		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C760		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C775		ECUM1H120JCN	CHIP 50V 12P	1	NV-G45EG
C781		ECUX1H220JCN	CHIP 50V 22P	1	NV-G45EG
C781		ECUM1H390JCN	CHIP 50V 39P	1	NV-G45B
C782		ECUM1H060DCN	CHIP 50V 6P	1	
C783		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	NV-G45EG
C787		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	1	NV-G45EG
C801,02		ECUM1H103ZFN	CHIP 50V 0.01U	2	
C803		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C804,05		ECUM1H103ZFN	CHIP 50V 0.01U	2	
C806		ECUX1H471KBN	CHIP 50V 470P	1	
C807		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C808		ECUM1H560JCN	CHIP 50V 56P	1	
C809,10		ECUM1H103ZFN	CHIP 50V 0.01U	2	
C811		ECUM1H180JCN	CHIP 50V 18P	1	
C812		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C813		ECUM1H330JCN	CHIP 50V 33P	1	
C814		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C815		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C816		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C817		ECQV1H274JZ	P.CAPACITOR 50V 0.27U	1	
C818		ECUM1H471KBN	CHIP 50V 470P	1	
C819		ECUM1H820JCN	CHIP 50V 82P	1	
C820		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C821		ECEA25Z4R7	E.CAPACITOR 25V 4.7U	1	
C823		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C824		ECEA1HK010	E.CAPACITOR 50V 1U	1	

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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C825		ECUM1H101JCN	CHIP 50V 100P	1	
C826		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C827		ECUM1H050CCN	CHIP 50V 5P	1	
C828		ECUM1H102KBN	CHIP 50V 1000P	1	
C829		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C830		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	NV-G45EG
C831		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C851		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	NV-G45EG
C852		ECEA1CK330	E.CAPACITOR 16V 33U	1	NV-G45EG
C853		ECEA10Z47	E.CAPACITOR 10V 47U	1	NV-G45EG
C854		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	NV-G45EG
C855		ECEA1CK330	E.CAPACITOR 16V 33U	1	NV-G45EG
C856		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	NV-G45EG
C858		ECKF1H681KB	C.CAPACITOR 50V 680P	1	NV-G45EG
C1101		ECEA1EK100	E.CAPACITOR 25V 10U	1	
C2022		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2023		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2024		ECUM1H182KBN	CHIP 50V 1800P	1	
C2026		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C2027		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2104		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2105		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C2106		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2107		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2108		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2109		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2110		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2112		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2113		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2114		ECUM1H102KBN	CHIP 50V 1000P	1	
C2115		ECEA1HKNR33	E.CAPACITOR 50V 0.33U	1	
C2116		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2117		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2118		ECUM1H472KBN	CHIP 50V 4700P	1	
C2119		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C2120		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C2121		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2122		ECUM1H562KBN	CHIP 50V 5600P	1	
C2124,25		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C2126		ECUM1H102KBN	CHIP 50V 1000P	1	
C2127		ECUM1H332KBN	CHIP 50V 3300P	1	
C2129		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C2130		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2131		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2132		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2134		ECUM1H102KBN	CHIP 50V 1000P	1	
C2137		ECUM1H562KBN	CHIP 50V 5600P	1	
C2138		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C2139		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2140		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2141		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2142,43		ECUM1H103ZFN	CHIP 50V 0.01U	2	
C2146		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2147		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2148		ECUM1H102KBN	CHIP 50V 1000P	1	
C2150		VCYD1E223KR	S.CAPACITOR 25V 0.022U	1	
C2155		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C2156		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C2158		ECUM1E103KBN	CHIP 25V 0.01U	1	
C2172		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C2174		ECUM1H102KBN	CHIP 50V 1000P	1	
C2175		ECUM1E103KBN	CHIP 25V 0.01U	1	
C2176		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C2177		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2178		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C2179		ECUM1E103KBN	CHIP 25V 0.01U	1	
C2181,82		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C2183		ECUM1H562KBN	CHIP 50V 5600P	1	
C2184		ECUM1H332KBN	CHIP 50V 3300P	1	
C2185		ECUM1H332KBN	CHIP 50V 3300P	1	NV-G45EG
C2187,88		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	2	NV-G45EG
C2501-03		ECQB1H333JH	P.CAPACITOR 50V 0.033U	3	
C2504-06		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2507		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C2508		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2511		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2512-14		ECUM1H332KBN	CHIP 50V 3300P	3	
C2517		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C2519		ECEA25Z47	E.CAPACITOR 25V 4.7U	1	
C2901		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2902-04		ECEA1HKN4R7	E.CAPACITOR 50V 4.7U	3	
C2905		ECQB1H473JH	P.CAPACITOR 50V 0.047U	1	
C2906		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C2907		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2908-10		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	3	
C2911		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2912		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3001		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3003,04		ECUM1H332KBN	CHIP 50V 3300P	2	
C3007		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3010		ECUM1H151JCN	CHIP 50V 150P	1	
C3011		ECUM1H270JCN	CHIP 50V 27P	1	
C3012		ECUM1H681JN	CHIP 50V 680P	1	
C3013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3014		ECUM1H150JCN	CHIP 50V 15P	1	
C3015		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3016		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3019		ECUM1H220JCN	CHIP 50V 22P	1	
C3026		ECUM1H180JCN	CHIP 50V 18P	1	
C3027		ECUM1H181JCN	CHIP 50V 180P	1	
C3051		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3053		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C3054		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3055		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C3056		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3057		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3058		ECQB1H392JH	P.CAPACITOR 50V 3900P	1	
C3059		ECQB1H562JH	P.CAPACITOR 50V 5600P	1	
C3060		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C3061		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C3062,63		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C3064		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3067,68		ECUM1H103ZFN	CHIP 50V 0.01U	2	
C3070		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C3072		ECKF1H101KB	C.CAPACITOR 50V 100P	1	NV-G45EG
C3073		ECCF1H390JC	C.CAPACITOR 50V 39P	1	
C3074		ECEA1CK470	E.CAPACITOR 16V 47U	1	NV-G45B
C3077		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	NV-G45EG
C3801,02		ECEA1CK220	E.CAPACITOR 16V 22U	2	NV-G45EG
C3803		ECEA1CK470	E.CAPACITOR 16V 47U	1	NV-G45EG
C3804		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	NV-G45EG
C3805,06		ECEA1CK470	E.CAPACITOR 16V 47U	2	NV-G45EG
C3807		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	NV-G45EG
C3808		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	NV-G45EG
C3809		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	NV-G45EG
C3810		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	NV-G45EG
C3811		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	NV-G45EG
C3812		ECEA1CK330	E.CAPACITOR 16V 33U	1	NV-G45EG
C3813		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	NV-G45EG
C3814,15		ECEA1CK100	E.CAPACITOR 16V 10U	2	NV-G45EG
C3816		ECKF1H121KB	C.CAPACITOR 50V 120P	1	NV-G45EG
C3817		ECEA1HK010	E.CAPACITOR 50V 1U	1	NV-G45EG
C3818		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	NV-G45EG
C3819		ECEA1HK010	E.CAPACITOR 50V 1U	1	NV-G45EG
C3821		ECKF1H471KB	C.CAPACITOR 50V 470P	1	NV-G45EG
C3822		VCYD1E103KR	S.CAPACITOR 25V 0.01U	1	NV-G45EG
C3823		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	NV-G45EG
C3824		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	NV-G45EG
C3825		ECCF1H100DC	C.CAPACITOR 50V 10P	1	NV-G45EG
C3826		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	NV-G45EG
C3827		ECCF1H050CC	C.CAPACITOR 50V 5P	1	NV-G45EG
C4001		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C4002		ECEA16Z33	E.CAPACITOR 16V 33U	1	
C4003		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C4004		ECQP1332JZ	M.CAPACITOR 100V 3300P	1	
C4005		ECCD2H121K	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	

To guarantee the FUNCTION,SAFETY and RELIABLITY of repaired units,only use ORIGINAL REPLACEMENT PARTS which are listed with their part numbers in this parts list section.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4010		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C4011		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H471KBN	CHIP 50V 470P	1	
C4014		ECQB1H182JH	P.CAPACITOR 50V 1800P	1	
C4015		ECEA1CKL100	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	CHIP 50V 1000P	1	
C4017		ECEA1CU470	E.CAPACITOR 16V 47U	1	
C4018		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	CHIP 50V 1000P	1	
C4021		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C4022		ECUM1H102KBN	CHIP 50V 1000P	1	
C4023		ECUX1H221JCN	CHIP 50V 220P	1	
C4024,25		ECUM1H101JCN	CHIP 50V 100P	2	
C4031		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C4032		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4038		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4039		VCYD1E103KR	S.CAPACITOR 25V 0.01U	1	NV-G45B
C6001		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6002		VCYD1C103MR1	S.CAPACITOR 16V 0.01U	1	
C6003		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C6006		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6007		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6013		ECEA1CK330	E.CAPACITOR 16V 33U	1	
C6017-19		ECEA0JK470	E.CAPACITOR 6.3V 47U	3	
C6020		ECUM1H103KBN	CHIP 50V 0.01U	1	
C6023		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C6024-26		ECUM1H271KBN	CHIP 50V 270P	3	
C6027		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C6028		ECUM1H102KBN	CHIP 50V 1000P	1	NV-G45EG
C6029		ECUM1H103ZFN	CHIP 50V 0.01U	1	NV-G45EG
C7551		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7552		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7553		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7554		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7555,56		ECUM1H103ZFN	CHIP 50V 0.01U	2	
C7557		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7558		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7559		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7560		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7561-63		ECUM1H103ZFN	CHIP 50V 0.01U	3	NV-G45EG
C7564		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7565		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C7569		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7571		EECS5R5V473	E.CAPACITOR 5.5V 0.047	1	
C7590		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C7591		ECUM1H102KBN	CHIP 50V 1000P	1	
C7592		ECUM1H560JCN	CHIP 50V 56P	1	NV-G45EG
C7593,94		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	2	NV-G45EG
C7801		ECEA1CK220	E.CAPACITOR 16V 22U	1	NV-G45EG
C7802		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	NV-G45EG
C7803		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	NV-G45EG
C7804		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	NV-G45EG
C7805		ECCF1H150JC	C.CAPACITOR 50V 15P	1	NV-G45EG
C7806		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	NV-G45EG
C7807		ECKF1H471KB	C.CAPACITOR 50V 470P	1	NV-G45EG
C7808		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	NV-G45EG
C7809		ECKF1H271KB	C.CAPACITOR 50V 270P	1	NV-G45EG
C7810		ECCF1H101JC	C.CAPACITOR 50V 100P	1	NV-G45EG
C7811		ECCF1H180JC	C.CAPACITOR 50V 18P	1	NV-G45EG
C7812		ECCF1H820JC	C.CAPACITOR 50V 82P	1	NV-G45EG
C7814		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	NV-G45EG
C7815		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	NV-G45EG
C7816		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	NV-G45EG
C7818		ECEA1CKN100	E.CAPACITOR 16V 10U	1	NV-G45EG
C7819,20		ECCF1H101JC	C.CAPACITOR 50V 100P	2	NV-G45EG
C7821		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	NV-G45EG
C7851		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	NV-G45EG
C7852		ECEA1AK101	E.CAPACITOR 10V 100U	1	NV-G45EG
C7853,54		ECCF1H330JC	C.CAPACITOR 50V 33P	2	NV-G45EG
C7855,56		ECEA1HK010	E.CAPACITOR 50V 1U	2	NV-G45EG
C7860		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	NV-G45EG

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			DIODES		
D301		MA4091	DIODE	1	
D710		MA3100L	DIODE	1	
D712		MA28W	DIODE	1	
D771		MA151WK	DIODE	1	NV-G45EG
D803,04		MA165	DIODE	2	NV-G45EG
D1101,02		MA165	DIODE	2	
D2007		MA165	DIODE	1	
D2011,12		MA165	DIODE	2	
D2014,15		MA165	DIODE	2	
D2101,02		MA165	DIODE	2	
D2104-06		MA165	DIODE	3	
D3008,09		MA165	DIODE	2	
D3011		MA165	DIODE	1	
D3801		MA165	DIODE	1	NV-G45EG
D4001		MA165	DIODE	1	
D4050		MA165	DIODE	1	
D6001		ERA15-01	DIODE	1	
D6002		MA165	DIODE	1	
D6004		MA165	DIODE	1	
D6017		ERA15-01	DIODE	1	
D6019		MA4150M	DIODE	1	
D6023,24		MA165	DIODE	2	
D6028,29		MA165	DIODE	2	
D6030		MA4056L	DIODE	1	
D6032		MA165	DIODE	1	
D7551-53		MA165	DIODE	3	
D7851		MA165	DIODE	1	NV-G45EG
			DELAY LINES		
DL801		VLD0089	DELAY LINE	1	
DL802		EFDHR124A13A	DELAY LINE	1	
			FILTERS		
FL301		ELB4M022	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0567	FILTER	1	
FL801		VLF0299	FILTER	1	
FL851		VLF0143	FILTER	1	NV-G45EG
FL3001		VLF0413	FILTER	1	NV-G45EG
			INTEGRATED CIRCUITS		
IC301		VEFH03D	HIC	1	
IC302		AN3494NK	IC	1	
IC303		MSM6965-3RS	IC	1	
IC701		M51366SP	IC	1	
IC801		VEFH04A	HIC	1	
IC851		BA7025L	IC	1	NV-G45EG
IC2101		UPD6160CA606	IC	1	
IC2102		MN15312VPL	IC	1	
IC2103,04		AN6562	IC	2	
IC2105		UPD4069UBC	IC	1	
IC2501		BA6432S	IC	1	
IC2901		AN3814K	IC	1	
IC3001		BA7004	IC	1	
IC3002		AN5421N	IC	1	
IC3801		M5202AP	IC	1	NV-G45EG
IC3802		AN6552	IC	1	NV-G45EG
IC4001		BA7766S	IC	1	
IC6001		MN15362VPD	IC	1	
IC6002		AN6914	IC	1	
IC6003		MN4510B	IC	1	
IC6004		MN12821R	IC	1	
IC7551		AN5043	IC	1	
IC7552		AN6913	IC	1	
IC7553		MN4066B	IC	1	
IC7801		SAA5235	IC	1	NV-G45EG

To guarantee the FUNCTION,SAFETY and RELIABLITY of repaired units,only use ORIGINAL REPLACEMENT PARTS which are listed with their part numbers in this parts list section.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC7802		SAF1135P	IC	1	NV-G45EG
IC7851		MN158412VNL	IC	1	NV-G45EG
IC7852		MN1280T	IC	1	NV-G45EG
			PACK PIN		
KR851		VJR0163	PACK PIN	1	NV-G45EG
			COILS		
L301		VLQEL05F101K	COIL 100UH	1	
L302		VLQEL05F220K	COIL 22UH	1	
L303		VLQ0213K101	COIL 100UH	1	
L304		VLQEL05F121K	COIL 120UH	1	
L305		VLQEL05F680K	COIL 68UH	1	
L306		VLQEL05F101K	COIL 100UH	1	
L307		VLQEL05F151K	COIL 150UH	1	
L308		VLQEL05F270K	COIL 27UH	1	
L309,10		VLQEL05F101K	COIL 100UH	2	
L701		ELESP680KA	COIL 68UH	1	NV-G45EG
L702		ELESP680KA	COIL 68UH	2	
L703,04		VLQEL05F221K	COIL 220UH	2	NV-G45EG
L711		VLQ0305J1R2	COIL 1.2UH	1	NV-G45B
L712		VLQ0305J1R2	COIL 1.2UH	1	NV-G45EG
L712		VLQ0305JR82	COIL 0.82UH	1	NV-G45B
L713		VLQ0305JR56	COIL 0.56UH	1	NV-G45B
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L716		VLQEL05F560K	COIL 56UH	1	NV-G45EG
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP680KA	COIL 68UH	1	NV-G45EG
L781		ELESP330KA	COIL 33UH	1	NV-G45B
L801		VLQEL05F101K	COIL 100UH	1	
L802-04		VLQEL05F150K	COIL 15UH	3	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F681K	COIL 680UH	1	
L808		VLQEL05F470K	COIL 47UH	1	
L809		VLQEL05F331K	COIL 330UH	1	
L810		VLQEL05F101K	COIL 100UH	1	
L811		VLQEL05F470K	COIL 47UH	1	
L812		VLQEL05F681K	COIL 680UH	1	
L851		VLQEL05F101K	COIL 100UH	1	
L2501		VLQEL05F102K	COIL 1mH	1	
L2502		VLQ0128	COIL 47UH	1	
L3001-03		VLQEL05F101K	COIL 100UH	3	
L3005		VLQEL05F120K	COIL 12UH	1	
L3006		VLQEL05F5R6K	COIL 5.6UH	1	
L3007		VLQEL05F101K	COIL 100UH	1	
L3008		VLQEL05F3R3K	COIL 3.3UH	1	
L3011		VLQEL05F4R7K	COIL 4.7UH	1	
L3012		VLQEL05F101K	COIL 100UH	1	
L3013		VLQEL05F390K	COIL 39UH	1	
L3014		VLQEL05F470K	COIL 47UH	1	
L3801		VLQEL05F101K	COIL 100UH	1	NV-G45EC
L3802		VLQEL05F1R0K	COIL 1UH	1	NV-G45EG
L3803		VLQEL06F471K	COIL 470UH	1	NV-G45EG
L3804		VLQEL05F2R7K	COIL 2.7UH	1	NV-G45EG
L3805,06		VLQEL05F1R0K	COIL 1UH	2	NV-G45EG
L4001		VLQEL07F822J	COIL 8.2mH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L7551		VLQEL05F680K	COIL 68UH	1	
L7801		VLQ0193	COIL	1	NV-G45EG
L7802,03		VLQEL05F101K	COIL 100UH	2	NV-G45EG
			CONNECTORS		
P006		VJS1902	CONNECTOR (FEMALE)	1	
P501		VJF0171T	CONNECTOR	1	
P1001		VJF0171T	CONNECTOR	1	
P1101		VJF0171R	CONNECTOR	1	
P1101		VJP1393T	CONNECTOR (MALE) 13P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P1501		VJS1233T	CONNECTOR (FEMALE)	1	
P2001		VJP1235T	CONNECTOR (MALE) 8P	1	
P2001		VJS1235T	CONNECTOR (FEMALE)	1	
P2002		VJP1932T	CONNECTOR (MALE)	1	
P2002		VJS1932	CONNECTOR (FEMALE)	1	
P2901		VJS1237T	CONNECTOR	1	
P3001		VJF0171T	CONNECTOR	1	
P3001		VJP1393T	CONNECTOR (MALE) 13P	1	
P4001		VJP1233T	CONNECTOR (MALE) 6P	1	
P4001		VJS1233T	CONNECTOR (FEMALE)	1	
P6001		VJS2157	CONNECTOR (FEMALE)	1	
P6002		VJS2149	CONNECTOR (FEMALE)	1	
P6003		VJP1236T	CONNECTOR (MALE) 9P	1	
P6003		VJS1742T	CONNECTOR	1	
P6202		VJS1742T	CONNECTOR	1	
P7401		VJS1475	CONNECTOR (FEMALE)	1	
P7402		VJS2157	CONNECTOR (FEMALE)	1	
			PACK PINS		
PK1,K2		VJR0452	PACK PIN	2	NV-G45EG
PK3801		VJR0456	PACK PIN	1	NV-G45EG
PK3802		VJR0188	PACK PIN	1	NV-G45EG
Q301		2SB709	TRANSISTORS	1	
Q302,03		2SC2295	TRANSISTOR	2	
Q304		2SD601	TRANSISTOR CHIP	1	
Q703		2SD601	TRANSISTOR	1	(S,T)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR	1	
Q714		2SD601	TRANSISTOR CHIP	1	
Q771		2SD601	TRANSISTOR CHIP	1	
Q772,73		2SK198	TRANSISTOR CHIP	2	NV-G45EG
Q801		2SD601	TRANSISTOR	1	(R)
Q802		2SC2295	TRANSISTOR	1	
Q804		2SB709	TRANSISTOR CHIP	1	
Q2001		2SB709	TRANSISTOR CHIP	1	
Q2002-04		2SD601	TRANSISTOR CHIP	3	
Q2006		2SD1330	TRANSISTOR	1	(S,T)
Q2108		2SD601	TRANSISTOR CHIP	1	
Q2111,12		2SD601	TRANSISTOR CHIP	2	
Q3002		2SC2295	TRANSISTOR	1	
Q3004		2SB709	TRANSISTOR CHIP	1	
Q3006		2SC2295	TRANSISTOR	1	
Q3007		2SB641	TRANSISTOR	1	
Q3013		2SD601	TRANSISTOR CHIP	1	
Q3014		2SA564	TRANSISTOR	1	(P,Q,R)
Q3801,02		2SB641	TRANSISTOR	2	(Q,R,S) NV-G45EG
Q3803		2SD636	TRANSISTOR	1	NV-G45EG
Q4001		2SD602	TRANSISTOR	1	(R)
Q6006		2SB641	TRANSISTOR	1	NV-G45B
Q6007		2SB643	TRANSISTOR	1	
Q6009		2SB643	TRANSISTOR	1	(R,S)
Q6016		2SD1275	TRANSISTOR	1	(P,Q)
Q6017		2SD893	TRANSISTOR	1	
Q6018		2SD973	TRANSISTOR	1	(S)
Q6019		2SD638	TRANSISTOR	1	
Q6020		2SD973	TRANSISTOR	1	(S)
Q7801		2SD636	TRANSISTOR	1	(Q,R,S) NV-G45EG
Q7802,03		2SB641	TRANSISTOR	2	(Q,R,S) NV-G45EG
			COMBINATION PARTS		
			(TRANSISTOR & RESISTOR)		
QR301-03		UN2212	TRANSISTOR-RESISTOR	3	
QR701		FA1L4M	TRANSISTOR-RESISTOR	1	NV-G45EG
QR701		UN2213	TRANSISTOR-RESISTOR	1	NV-G45B
QR702		FA1L4M	TRANSISTOR-RESISTOR	1	NV-G45EG
QR702		UN2213	TRANSISTOR-RESISTOR	1	NV-G45B

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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR711,12		FA1F4M	TRANSISTOR-RESISTOR	2	NV-G45EG
QR713		FA1A4M	TRANSISTOR-RESISTOR	1	NV-G45EG
QR713		UN2211	TRANSISTOR-RESISTOR	1	NV-G45B
QR714		FA1A4M	TRANSISTOR-RESISTOR	1	NV-G45EG
QR801		UN2212	TRANSISTOR-RESISTOR	1	
QR853		UN1213	TRANSISTOR-RESISTOR	1	NV-G45EG
QR1101		UN2213	TRANSISTOR-RESISTOR	1	
QR2002		UN2212	TRANSISTOR-RESISTOR	1	
QR2003		UN2112	TRANSISTOR-RESISTOR	1	
QR2006,07		UN2213	TRANSISTOR-RESISTOR	2	
QR2009		UN2213	TRANSISTOR-RESISTOR	1	
QR2010		UN2113	TRANSISTOR-RESISTOR	1	
QR2101,02		UN2113	TRANSISTOR-RESISTOR	2	
QR2103		UN2212	TRANSISTOR-RESISTOR	1	
QR2104		UN2110	TRANSISTOR-RESISTOR	1	
QR2105		UN2117	TRANSISTOR-RESISTOR	1	
QR2106		UN2115	TRANSISTOR-RESISTOR	1	
QR2107		UN2110	TRANSISTOR-RESISTOR	1	
QR3004		UN2111	TRANSISTOR-RESISTOR	1	
QR3006,07		2SD1676	TRANSISTOR-RESISTOR	2	
QR3010		UN2213	TRANSISTOR-RESISTOR	1	
QR4006		UN1112	TRANSISTOR-RESISTOR	1	
QR4007		UN2211	TRANSISTOR-RESISTOR	1	
QR6001		UN2212	TRANSISTOR-RESISTOR	1	
QR6005		UN2213	TRANSISTOR-RESISTOR	1	NV-G45B
QR6006		UN2111	TRANSISTOR-RESISTOR	1	
QR6008		UN2119	TRANSISTOR-RESISTOR	1	
QR6011		UN2212	TRANSISTOR-RESISTOR	1	
QR6012		UN2113	TRANSISTOR-RESISTOR	1	
QR7551-54		UN2213	TRANSISTOR-RESISTOR	4	
QR7561		UN2211	TRANSISTOR-RESISTOR	1	
QR7851		UN1211	TRANSISTOR-RESISTOR	1	NV-G45EG
QR7852		UN1213	TRANSISTOR-RESISTOR	1	NV-G45EG
			RESISTORS		
R301		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R302		ERJ6GMYJ391	CHIP 1/16W 390	1	
R303		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R304		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R305		ERJ6GMYJ824	CHIP 1/16W 820K	1	
R306		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R307		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R308		ERJ6GMYJ123	CHIP 1/16W 12K	1	
R309		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R310		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R311		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R312		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R313		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R314		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R315		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R316		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R317		ERJ6GMYJ471	CHIP 1/16W 470	1	
R318		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R319		ERJ6GMYJ823	CHIP 1/16W 82K	1	
R320,21		ERJ6GMYJ102	CHIP 1/16W 1K	2	
R322		ERJ6GMYJ391	CHIP 1/16W 390	1	
R323		ERJ6GMYJ471	CHIP 1/16W 470	1	
R324		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R325		ERJ6GMYJ151	CHIP 1/16W 150	1	
R326		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R327		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R328		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R329		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R330		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R331		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R332		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R334,35		ERJ6GMYJ102	CHIP 1/16W 1K	2	
R338		ERDS2TJ474	C.RESISTOR 1/4W 470K	1	
R707		ERJ6GEYJ223	CHIP 1/16W 22K	1	NV-G45EG
R707		ERJ6GEYJ103	CHIP 1/16W 10K	1	NV-G45B
R712		ERJ6GEYJ682	CHIP 1/16W 6.8K	1	
R713		ERJ6GEYJ681	CHIP 1/16W 680	1	
R714		ERD2FCG330	C.RESISTOR 2W 33	1	<!>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R715		ERJ6GEYJ561	CHIP 1/16W 560	1	NV-G45EG
R715		ERJ6GEYJ271	CHIP 1/16W 270	1	NV-G45B
R716		ERJ6GEYJ152	CHIP 1/16W 1.5K	1	NV-G45EG
R716		ERJ6GEYJ272	CHIP 1/16W 2.7K	1	NV-G45B
R717		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R718		ERJ6GEYJ754	CHIP 1/16W 750K	1	
R719		ERJ6GEYJ682	CHIP 1/16W 6.8K	1	
R720		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R721		ERJ6GEYJ332	CHIP 1/16W 3.3K	1	
R722		ERJ6GEYJ392	CHIP 1/16W 3.9K	1	NV-G45EG
R723		ERJ6GEYJ183	CHIP 1/16W 180K	1	
R724		ERJ6GEYJ101	CHIP 1/16W 100	1	
R725		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R726		ERJ6GEYJ472	CHIP 1/16W 4.7K	1	
R727		ERJ6GEYJ471	CHIP 1/16W 470	1	
R728		VREOO40E471T	V.RESISTOR 470	1	
R729,30		ERJ6GEYJ331	CHIP 1/16W 330	2	
R737		ERJ6GEYJ274	CHIP 1/16W 270K	1	
R738		ERJ6GEYJ334	CHIP 1/16W 330K	1	
R739		ERJ6GEYJ681	CHIP 1/16W 680	1	
R740		ERJ6GEYJ473	CHIP 1/16W 47K	1	
R741,42		ERJ6GEYJ272	CHIP 1/16W 2.7K	2	
R743		ERJ6GEYJ470	CHIP 1/16W 47	1	
R744		ERJ6GEYJ821	CHIP 1/16W 820	1	
R745		ERJ6GEYJ331	CHIP 1/16W 330	1	
R746		VREOO40E181T	.RESISTOR 180	1	
R747		ERJ6GEYJ471	CHIP 1/16W 470	1	NV-G45EG
R750		ERJ6GEYJ182	CHIP 1/16W 1.8K	1	
R757		ERJ6GEYJ222	CHIP 1/16W 2.2K	1	
R759		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R760		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R763		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R764		ERJ6GEYJ822	CHIP 1/16W 8.2K	1	
R772		ERJ6GEYJ102	CHIP 1/16W 1K	1	
R773		ERJ6GEYJ103	CHIP 1/16W 10K	1	
R774		ERJ6GEYJ333	CHIP 1/16W 33K	1	NV-G45EG
R775		ERJ6GEYJ474	CHIP 1/16W 470K	1	NV-G45EG
R776		ERJ6GEYJ105	CHIP 1/16W 1M	1	NV-G45EG
R777		ERJ6GEYJ184	CHIP 1/16W 180K	1	NV-G45EG
R778		ERJ6GEYJ105	CHIP 1/16W 1M	1	NV-G45EG
R779		ERJ6GEYJ104	CHIP 1/16W 100K	1	NV-G45EG
R781		ERJ6GEYJ271	CHIP 1/16W 270	1	NV-G45EG
R781		ERJ6GEYJ681	CHIP 1/16W 680	1	NV-G45B
R782		ERJ6GEYJ821	CHIP 1/16W 820	1	NV-G45EG
R782		ERJ6GEYJ471	CHIP 1/16W 470	1	NV-G45B
R792		ERJ6GEYJ120	CHIP 1/16W 12	1	
R801		ERJ6GMYJ271	CHIP 1/16W 270	1	
R802		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R803,04		ERJ6GMYJ103	CHIP 1/16W 10K	2	
R805,06		ERJ6GMYJ471	CHIP 1/16W 470	2	
R807		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R808		ERJ6GMYJ681	CHIP 1/16W 680	1	
R809		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R810		ERJ6GMYJ331	CHIP 1/16W 330	1	
R814		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R815		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R816		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R817,18		ERJ6GMYJ102	CHIP 1/16W 1K	2	
R819		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R820		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R821,22		ERJ6GMYJ103	CHIP 1/16W 10K	2	
R823		ERJ6GMYJ271	CHIP 1/16W 270	1	
R824		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R825		ERJ6GMYJ182	CHIP 1/16W 1.8K	1	
R826		ERDS2TJ681	C.RESISTOR 1/4W 680	1	
R851		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	NV-G45EG
R852		ERDS2TJ390	C.RESISTOR 1/4W 39	1	NV-G45EG
R853		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	NV-G45EG
R854		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	NV-G45EG
R855		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	NV-G45EG
R856		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	NV-G45EG
R858		ERDS2TJ561	C.RESISTOR 1/4W 560	1	NV-G45EG
R2007		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R2008		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R2009		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	

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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2010		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R2011		ERJ6GMYJ561	CHIP 1/16W 560	1	
R2029		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2030		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R2031		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R2032		ERJ6GMYJ124	CHIP 1/16W 120K	1	
R2033		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2034		ERJ6GMYJ391	CHIP 1/16W 390	1	
R2037		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2038		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R2046		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R2047,48		ERJ6GMYJ154	CHIP 1/16W 150K	2	
R2049		ERJ6GMYJ273	CHIP 1/16W 27K	1	
R2050		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2051		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R2052		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2053		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R2054		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2056		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R2106		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R2108		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R2109		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R2110		ERJ6GMYJ274	CHIP 1/16W 270K	1	
R2111		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R2112,13		ERJ6GMYJ154	CHIP 1/16W 150K	2	
R2114		ERJ6GMYJ224	CHIP 1/16W 220K	1	
R2115		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R2117		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2119		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R2120		ERJ6GMYJ274	CHIP 1/16W 270K	1	
R2122,23		ERJ6GMYJ332	CHIP 1/16W 3.3K	2	
R2124		ERJ6GMYJ561	CHIP 1/16W 560	1	
R2125		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R2131		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R2132,33		ERJ6GMYJ563	CHIP 1/16W 56K	2	
R2134		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R2135		ERJ6GMYJ333	CHIP 1/16W 33K	1	
R2136,37		ERJ6GMYJ154	CHIP 1/16W 150K	2	
R2138		ERJ6GMYJ124	CHIP 1/16W 120K	1	
R2139		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R2140		ERJ6GMYG333	CHIP 1/16W 33K	1	
R2141		ERJ6GMYJ684	CHIP 1/16W 680K	1	
R2142		ERJ6GMYJ154	CHIP 1/16W 150K	1	
R2143		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2144,45		ERJ6GMYJ223	CHIP 1/16W 22K	2	
R2146		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2147		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R2148		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R2149		ERJ6GMYG472	CHIP 1/16W 4.7K	1	
R2150		ERJ6GMYJ821	CHIP 1/16W 820	1	
R2151		ERJ6GMYJ824	CHIP 1/16W 820K	1	
R2153		ERJ6GMYJ684	CHIP 1/16W 680K	1	
R2156		ERJ6GMYJ123	CHIP 1/16W 12K	1	
R2157		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R2158		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2159,60		ERJ6GMYJ223	CHIP 1/16W 22K	2	
R2166,67		ERJ6GMYJ563	CHIP 1/16W 56K	2	
R2168,69		ERJ6GMYJ562	CHIP 1/16W 5.6K	2	
R2174		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2175		ERJ6GMYJ334	CHIP 1/16W 330K	1	
R2177		ERJ6GMYJ681	CHIP 1/16W 680	1	
R2178		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R2179		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R2181		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R2182		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R2183		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R2184		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2185		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R2186,87		ERJ6GMYJ222	CHIP 1/16W 2.2K	2	
R2188		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R2189		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R2190		ERJ6GMYJ821	CHIP 1/16W 820	1	
R2191		ERJ6GMYJ105	CHIP 1/16W 1M	1	
R2192		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R2193		ERJ6GMYJ564	CHIP 1/16W 560K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2501-03		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2504		ERDS1TJ1R0	C.RESISTOR 1/2W 1.0	1	
R2505		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R2506		ERJ6GMYG512	CHIP 1/16W 5.1K	1	
R2518		ERJ6GMYJ330	CHIP 1/16W 33	1	
R2901-03		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2906		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R2907		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R3009		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R3010		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R3011		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R3019		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3022,23		ERJ6GMYJ821	CHIP 1/16W 820	2	
R3025		ERJ6GMYJ101	CHIP 1/16W 100	1	NV-G45B
R3028		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R3029		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R3030		ERJ6GMYJ750	CHIP 1/16W 75	1	
R3032		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R3033		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R3034		ERJ6GMYJ333	CHIP 1/16W 33K	1	NV-G45B
R3035		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	NV-G45B
R3036		ERJ6GMYJ183	CHIP 1/16W 18K	1	NV-G45B
R3040		ERJ6GMYJ750	CHIP 1/16W 75	1	NV-G45B
R3042		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R3050		ERJ6GMYJ750	CHIP 1/16W 75	1	
R3051		ERJ6GMYJ750	CHIP 1/16W 75	1	NV-G45B
R3057		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R3062		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R3063		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R3064		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R3065		ERJ6GMYJ561	CHIP 1/16W 560	1	
R3066		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R3067		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R3068		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R3069		ERJ6GMYJ151	CHIP 1/16W 150	1	
R3070		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R3071		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R3072		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R3073		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R3074		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R3075		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R3076		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R3077		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R3081		ERJ6GMYJ273	CHIP 1/16W 27K	1	
R3084		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R3085		ERJ6GMYJ221	CHIP 1/16W 220	1	
R3087,88		ERJ6GMYJ222	CHIP 1/16W 2.2K	2	
R3801,02		ERDS2TJ124	C.RESISTOR 1/4W 120K	2	NV-G45EG
R3803		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	NV-G45EG
R3804		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	NV-G45EG
R3805		ERG1ANJ820	M.RESISTOR 1W 82	1	NV-G45EG
R3806		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	NV-G45EG
R3807		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	NV-G45EG
R3808		ERDS2TJ753	C.RESISTOR 1/4W 75K	1	NV-G45EG
R3809		ERDS2TJ183	C.RESISTOR 1/4W 18K	1	NV-G45EG
R3810,11		ERDS2TJ474	C.RESISTOR 1/4W 470K	2	NV-G45EG
R3812		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	NV-G45EG
R3813		ERDS2TJ471	C.RESISTOR 1/4W 470	1	NV-G45EG
R3814-16		ERDS2TJ750	C.RESISTOR 1/4W 75	3	NV-G45EG
R3817		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	NV-G45EG
R3818		ERDS2TJ183	C.RESISTOR 1/4W 18K	1	NV-G45EG
R3819		ERDS2TJ750	C.RESISTOR 1/4W 75	1	NV-G45EG
R3820		ERDS2TJ101	C.RESISTOR 1/4W 100	1	NV-G45EG
R3821,22		ERDS2TJ242	C.RESISTOR 1/4W 2.4K	2	NV-G45EG
R3824		ERDS2TJ471	C.RESISTOR 1/4W 470	1	NV-G45EG
R3825		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	NV-G45EG
R3826		ERDS2TJ101	C.RESISTOR 1/4W 100	1	NV-G45EG
R4001		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R4002		ERJ6GMYJ100	CHIP 1/16W 10	1	
R4003		ERJ6GMYJ183	CHIP 1/16W 18K	1	
R4004		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R4006		ERJ6GMYJ220	CHIP 1/16W 22	1	
R4007		ERJ6GMYJ221	CHIP 1/16W 220	1	
R4008		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R4009		ERJ6GMYJ104	CHIP 1/16W 100K	1	

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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4010		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R4012		ERJ6GMYJ331	CHIP 1/16W 330	1	
R4013		ERJ6GMYJ334	CHIP 1/16W 330K	1	
R4014		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R4015		ERJ6GMYJ472	CHIP 1/16W 4.7K	1	
R4016		ERJ6GMYJ105	CHIP 1/16W 1M	1	
R4017		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R4018		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R4019		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R4020		ERJ6GMYJ563	CHIP 1/16W 56K	1	
R4021		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R4022		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R4023		ERJ6GMYG473	CHIP 1/16W 47K	1	
R4024,25		ERJ6GMYG104	CHIP 1/16W 100K	2	
R4051		ERJ6GMYJ123	CHIP 1/16W 12K	1	
R4052		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R4054		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R4055		ERJ6GMYJ681	CHIP 1/16W 680	1	
R6001		ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R6002		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R6006		ERD2FCVG220	C.RESISTOR 2W 22	1	<!>
R6007		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R6008		ERJ6GMYJ181	CHIP 1/16W 180	1	
R6009		ERJ6GMYJ561	CHIP 1/16W 560	1	
R6010		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R6011		ERJ6GMYJ221	CHIP 1/16W 220	1	
R6014		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R6017		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R6023		ERJ6GMYJ683	CHIP 1/16W 68K	1	
R6024		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R6027		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R6028		ERJ6GMYJ184	CHIP 1/16W 180K	1	
R6029		ERJ6GMYJ561	CHIP 1/16W 560	1	
R6030,31		ERJ6GMYJ153	CHIP 1/16W 15K	2	
R6032		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R6033,34		ERJ6GMYJ333	CHIP 1/16W 33K	2	
R6035-37		ERJ6GMYJ101	CHIP 1/16W 100	3	
R6038		ERJ6GMYJ272	CHIP 1/16W 2.7K	1	
R6041		ERJ6GMYJ391	CHIP 1/16W 390	1	
R6042		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	NV-G45B
R6045		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	NV-G45B
R6046		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R6050		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R6051		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R6060		ERJ6GMYJ822	CHIP 1/16W 8.2K	1	
R6067		ERJ6GMYJ101	CHIP 1/16W 100	1	
R6068		ERDS1TJ332	C.RESISTOR 1/2W 3.3K	1	
R6069		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R6070		ERJ6GMYJ471	CHIP 1/16W 470	1	
R6071		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R6072		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R6073		ERJ6GMYJ131	CHIP 1/16W 130	1	
R6074		ERJ6GMYJ221	CHIP 1/16W 220	1	
R6075		ERG3SJ220	M.RESISTOR 3W 22	1	
R6079		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R6080		ERJ6GMYJ103	CHIP 1/16W 10K	1	NV-G45B
R6083		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R6084,85		ERJ6GMYJ561	CHIP 1/16W 560	2	
R6087-89		ERJ6GMYJ272	CHIP 1/16W 2.7K	3	
R6090		ERJ6GMYJ821	CHIP 1/16W 820	1	
R6091		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R6093		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	NV-G45B
R6095		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R6096		ERJ6GMYJ681	CHIP 1/16W 680	1	
R6098		ERJ6GMYJ101	CHIP 1/16W 100	1	
R6099		ERJ6GMYJ201	CHIP 1/16W 200	1	
R7551,52		ERJ6GMYJ473	CHIP 1/16W 47K	2	
R7553		ERJ6GMYJ104	CHIP 1/16W 100K	1	
R7554		ERJ6GMYJ124	CHIP 1/16W 120K	1	
R7555		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7556		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7557		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7558		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R7561,62		ERJ6GMYJ473	CHIP 1/16W 47K	2	
R7563		ERJ6GMYJ563	CHIP 1/16W 56K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7564		ERJ6GMYJ393	CHIP 1/16W 39K	1	
R7565		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7566		ERJ6GMYJ562	CHIP 1/16W 5.6K	1	
R7567		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R7568		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R7577		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7578		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R7583		ERJ6GMYJ103	CHIP 1/16W 10K	1	NV-G45EG
R7583		ERJ6GMYJ153	CHIP 1/16W 15K	1	NV-G45B
R7595		ERJ6GMYJ181	CHIP 1/16W 180	1	
R7597		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R7803,04		ERDS2TJ103	C.RESISTOR 1/4W 10K	2	NV-G45EG
R7809		ERDS2TJ683	C.RESISTOR 1/4W 68K	1	NV-G45EG
R7810		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	NV-G45EG
R7811		ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	NV-G45EG
R7812		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	NV-G45EG
R7813-15		ERDS2TJ102	C.RESISTOR 1/4W 1K	3	NV-G45EG
R7816		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	NV-G45EG
R7817		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	NV-G45EG
R7818		ERDS2TJ221	C.RESISTOR 1/4W 220	1	NV-G45EG
R7851		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	NV-G45EG
R7860		ERDS2TJ471	C.RESISTOR 1/4W 470	1	NV-G45EG
			SWITCH		
SW3801		VSS0226	SWITCH	1	NV-G45EG
			TRANSFORMERS		
T703		EIV5EC013A	TRANSFORMER	1	NV-G45EG
T703		EIV5EC005A	TRANSFORMER	1	NV-G45B
T704		EIV5EC006A	TRANSFORMER	1	NV-G45EG
T704		EIV5EC007A	TRANSFORMER	1	NV-G45B
T710		EULBEF022	FILTER	1	NV-G45EG
T711		EIS5EC004A	TRANSFORMER	1	NV-G45EG
T711		EIS5EC008A	TRANSFORMER	1	NV-G45B
T851		ELM7Q207A	TRANSFORMER	1	NV-G45EG
T4001		EIQ7QF014Q	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR301		EVND3AA00B24	V.RESISTOR 20K	1	
VR302		EVN3ACA00B14	V.RESISTOR 10K	1	
VR701,02		EVM4LGA00B23	V.RESISTOR 2K	2	NV-G45EG
VR702		EVNDRAA00B23	V.RESISTOR 2K	1	NV-G45B
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR751		EVNDRAA00B53	V.RESISTOR 5K	1	
VR801		EVN3ACA00B52	V.RESISTOR 500	1	
VR802		EVN3ACA00B13	V.RESISTOR 1K	1	
VR803		EVND1AA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2002		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2010		EVL51MA00B25	V.RESISTOR 200K	1	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2013		EVNDRAA00B23	V.RESISTOR 2K	1	
VR3012,13		EVNDRAA00B52	V.RESISTOR 500	2	
VR3020		EVN38CA00B23	V.RESISTOR 2K	1	
VR4001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X710		EFCH38MSP1	SAW FILTER	1	NV-G45EG
X710		EFCH39MSP3	SAW FILTER	1	NV-G45B
X711		EFCS5R5MW5	FILTER	1	NV-G45EG
X711		EFCS6R0MW5	FILTER	1	NV-G45B
X712		EFCS5R5MS5	FILTER	1	NV-G45EG
X712		EFCS6R0MS5	FILTER	1	NV-G45B
X715		ELB5A043	FILTER	1	NV-G45EG
X716		EFCA40R40M1	FILTER	1	NV-G45EG

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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
X717		ELB5A048	CRYSTAL OSCILLATOR	1	NV-G45EG
X801		VSX0162A	CRYSTAL OSCILLATOR	1	
X3001		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0204	CRYSTAL OSCILLATOR	1	
X7504		VSQ0565	CRYSTAL OSCILLATOR	1	
X7801		VSX0173	CRYSTAL OSCILLATOR	1	NV-G45EG
X7851		EF0A4R0M03C2	CRYSTAL OSCILLATOR	1	NV-G45EG
			MISCELLANEOUS		
		VSC1068	HEAT SINK	1	(FOR IC6003)
		VWJ0228	FLEXIBLE WIRE 13P	1	(P7502-P7401)
		VEJ0643	REAR JACK	1	NV-G45EG
		VEJ0644	REAR JACK	1	NV-G45B
		VJF0215	BINDER	1	
		VSC1689	HEAT SINK	1	(FOR IC2501)
		VMC0075	HEAT SINK SPRING	1	(FOR IC2501)
		VMZ1130	HEAT SINK COVER	1	
		VJR0160	PACK PIN 6P	1	(FOR LUMI&CHRO PACK)
		VJR0130	PACK PIN 12P	1	(FOR LUMI&CHRO PACK)
		VJR0163	PACK PIN 9P	1	(FOR LUMI&CHRO PACK)
		VJR0275	PACK PIN 9P	1	(FOR TV DEMODU. PACK)
		VJR0406	PACK PIN 5P	2	(FOR TV DEMODU. PACK)
		VSC2232	SHIELD CASE (TOP)	1	(FOR TV DEMODU. PACK)
		VSC2233	SHIELD CASE (MAIN)	1	(FOR TV DEMODU. PACK)
		VSC2396	SHIELD CASE (BOTTOM)	1	(FOR TV DEMODU. PACK)
		VJS1469	21 PIN CONNECTOR	1	NV-G45EG
	■	VEP05120B	HEAD AMP C.B.A.		(NLA)
			CAPACITORS		
C501		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C502		ECUX1H820JCN	CHIP 50V 82P	1	
C503		ECUM1H181JCN	CHIP 50V 180P	1	
C504		ECUX1H330JCN	CHIP 50V 33P	1	
C505		ECUX1H103ZFN	CHIP 50V 0.01U	1	
C506		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C507		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C508		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C509		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C512,13		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	2	
C514		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C515,16		ECUX1E104ZFN	CHIP 25V 0.1U	2	
C517,18		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C519,20		ECUX1E104ZFN	CHIP 25V 0.1U	2	
C521		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C522		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C523-26		ECUX1H470JCN	CHIP 50V 47P	4	
C527,28		ECUX1H102KBN	CHIP 50V 1000P	2	
C529		ECUX1H560JCN	CHIP 50V 56P	1	
C530		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C531,32		ECUX1H103ZFN	CHIP 50V 0.01U	2	
C533		ECUX1H102KBN	CHIP 50V 1000P	1	
C534		ECUX1E104ZFN	CHIP 25V 0.1U	1	
C535		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C536,37		ECUX1H560JCN	CHIP 50V 56P	2	
			INTEGRATED CIRCUIT		
IC501		BA7254S	IC	1	
			COILS		
L501		VLQEL05F101K	COIL 100UH	1	
L502		VLQEL05F820K	COIL 82UH	1	
L503		VLQEL05F151K	COIL 150UH	1	
L505		VLQEL05F101K	COIL 100UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L506		VLQEL05F270K	COIL 27UH	1	
			CONNECTORS		
P002		VJS1449	CONNECTOR (FEMALE)	1	
P501		VJP1393T	CONNECTOR (MALE) 13P	1	
			TRANSISTOR		
Q501		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
			RESISTORS		
R501		ERJ6GMYJ561	CHIP 1/16W 560	1	
R502		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R503		ERJ6GMYJ222	CHIP 1/16W 2.2K	1	
R504		ERJ6GMYJ331	CHIP 1/16W 330	1	
R505		ERJ6GMYJ330	CHIP 1/16W 33	1	
R506		ERJ6GMYJ680	CHIP 1/16W 68	1	
R507,08		ERJ6GMYJ471	CHIP 1/16W 470	2	
R512		ERJ6GMYJ561	CHIP 1/16W 560	1	
R515		ERJ6GMYJ561	CHIP 1/16W 560	1	
R516		ERJ6GMYJ821	CHIP 1/16W 820	1	
R517,18		ERJ6GMYJ100	CHIP 1/16W 10	2	
R519		ERJ6GMYJ821	CHIP 1/16W 820	1	
R520		ERJ6GMYJ391	CHIP 1/16W 390	1	
R521		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R522		ERJ6GMYJ204	CHIP 1/16W 200K	1	
R523		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R524		ERJ6GMYJ152	CHIP 1/16W 1.5K	1	
R526-29		ERJ6GMYJ222	CHIP 1/16W 2.2K	4	
R532		ERJ6GMYJ392	CHIP 1/16W 3.9K	1	
R543		ERJ6GMYJ821	CHIP 1/16W 820	1	
			VARIABLE RESISTORS		
VR501		EVND1AA00B23	V.RESISTOR 2K	1	
VR502		EVND1AA00B22	V.RESISTOR 200	1	
			MISCELLANEOUS		
		VSC2353	SHIELD CASE (TOP)	1	
		VSC2354	SHIELD CASE (MAIN)	1	
		VSC2355	SHIELD CASE (BOTTOM)	1	
	■	VEP07425C	TIMER C.B.A.		NV-G45EG (NLA)
		VEP07425B			NV-G45B
					INCLUDING THE
					IR RECEIVER C.B.A.
					(VEP06380E).
			CAPACITORS		
C6701		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6702		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6704		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA030E41	TRIMMER 30P	1	
C7502		ECUM1H080DCN	CHIP 50V 8P	1	
C7503		ECUX1H104ZFN	CHIP 50V 0.1U	1	
C7504		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7505		ECUM1H220JCN	CHIP 50V 22P	1	
C7506		ECUM1H330JCN	CHIP 50V 33P	1	
C7507		ECEA1HK220	E.CAPACITOR 50V 22U	1	
C7508		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7509		ECUM1H331KBN	CHIP 50V 330P	1	
C7510		ECUX1H104ZFN	CHIP 50V 0.1U	1	

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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7511		ECUM1H1032FN	CHIP 50V 0.01U	1	
C7520		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C7521		ECUM1H102KBN	CHIP 50V 1000P	1	
			DIODES		
D6701		PN323B	PHOTO DIODE	1	
D7501		ERA15-01	DIODE	1	
D7502		MA165	DIODE	1	
D7503		MA4075M	DIODE	1	
D7506-13		MA165	DIODE	8	
D7521		MA165	DIODE	1	NV-G45B
D7522		MA165	DIODE	1	NV-G45EG
D7524,25		MA165	DIODE	2	NV-G45B
D7526		MA165	DIODE	1	
D7527		MA165	DIODE	1	NV-G45EG
D7531,32		MA165	DIODE	2	NV-G45B
D7534-36		MA165	DIODE	3	
D7538		MA165	DIODE	1	
			DISPLAY TUBE		
DP7501		VSL0113A	DISPLAY TUBE	1	
			INTEGRATED CIRCUITS		
IC6701		UPC1490HA	IC	1	
IC7501		MN15283VPY	IC	1	
IC7502		MN1226	IC	1	
IC7503		MN1280P	IC	1	
IC7505		MN1280T	IC	1	
			COIL		
L7501		VLQEL05F221K	COIL 220UH	1	
			CONNECTORS		
P7501		VJS1903	CONNECTOR	1	
P7502		VJS1491	CONNECTOR (FEMALE)	1	
P7504		VJS1937	CONNECTOR (FEMALE)	1	
			TRANSISTOR		
Q7501		2SD601	TRANSISTOR CHIP	1	
			COMBINATION PARTS		
			(TRANSISTOR & RESISTOR)		
QR7501		UN2112	TRANSISTOR-RESISTOR	1	
QR7509		UN2113	TRANSISTOR-RESISTOR	1	
QR7510,11		UN2213	TRANSISTOR-RESISTOR	2	
			RESISTORS		
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R7501		ERJ6GMYJ122	CHIP 1/16W 1.2K	1	
R7502		ERJ6GMYJ224	CHIP 1/16W 220K	1	
R7503		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7504		ERJ6GMYJ103	CHIP 1/16W 10K	1	
R7505		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7509		ERJ6GMYJ223	CHIP 1/16W 22K	1	
R7510		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R7511-14		ERJ6GMYJ182	CHIP 1/16W 1.8K	4	
R7515		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R7519		ERJ6GMYJ104	CHIP 1/16W 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7520-22		ERJ6GMYJ103	CHIP 1/16W 10K	3	
R7530		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R7531		ERDS1TJ2R7	C.RESISTOR 1/2W 2.7	1	
R7532		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7538		ERJ6GMYJ221	CHIP 1/16W 220	1	
R7540		ERJ6GMYJ473	CHIP 1/16W 47K	1	
R7543		ERJ6GMYJ102	CHIP 1/16W 1K	1	
			SWITCHES		
SW7511		EVQQS307K	SWITCH	1	NV-G45EG
SW7514-19		EVQQS307K	SWITCH	6	
SW7524,25		EVQQS307K	SWITCH	2	
SW7539		EVQQS307K	SWITCH	1	
			VARIABLE RESISTOR		
VR6701		EVMLGGA00B15	V.RESISTOR 100K	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140A	CRYSTAL OSCILLATOR	1	
X7502		VSX0094A	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VGQ1086	SHAFT (C)	1	
		VJF0398	FIP HOLDER	1	
		VSC1841	SHIELD CASE (TOP)	1	(FOR IR RECEIVER)
		VSC1928	SHIELD CASE (BOTTOM)	1	(FOR IR RECEIVER)
		VSC1929	SHIELD CASE (MAIN)	1	(FOR IR RECEIVER)
	■	VEP06463A	OPERATION C.B.A.		(NLA)
			DIODES		
D6201		LN28RCPP	LED	1	
D6202		LN38GCPPSVT	LED	1	
D6203,04		MA165	DIODE	2	
			CONNECTORS		
P6201		VJS1995	CONNECTOR	1	
P6202		VJP1249T	CONNECTOR (MALE) 9P	1	
			RESISTORS		
R6201,02		ERJ6GMYJ181	CHIP 1/16W 180	2	
R6203		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R6204		ERJ6GMYJ223	CHIP 1/16W 22K	1	
			SWITCHES		
SW6201,02		EVQQS307K	SWITCH	2	
SW6203,04		ESD14314	SWITCH	2	
			VARIABLE RESISTORS		
VR2007,08		EVUFSAEC4B15	V.RESISTOR 1M	2	
VR3004		EVUJ16EC4B24	V.RESISTOR 20K	1	

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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
		VGU3364	SLID SW KNOB	1	
		VMD0504	LED HOLDER	2	(FOR D6201,D6202)
		VGQ1084	SHAFT (A)	1	
		VGQ1085	SHAFT (B)	1	
	■	VEP01310C	POWER C.B.A.		NV-G45EG
		VEP01310D			NV-G45B
					<!> (NLA)
					INCLUDING THE
					POWER INLET C.B.A.
					(VEP01311B).
			CAPACITORS		
C1001		ECQU2A224MN	P.CAPACITOR 100V 0.22U	1	NV-G45EG <!>
C1001		ECQU2A683MN	P.CAPACITOR 100V 0.068U	1	NV-G45B <!>
C1002		ECQU2A104MN	P.CAPACITOR 100V 0.1U	1	NV-G45EG <!>
C1002		ECQU2A683MN	P.CAPACITOR 100V 0.068U	1	NV-G45B <!>
C1003		ECEA2AGE010	E.CAPACITOR 100V 1U	1	
C1004,05		VCC0016	.CAPACITOR 400V 100P	2	<!>
C1006-08		VCC0021	.CAPACITOR 400V 470P	3	<!>
C1009		ECOS2GU820B	E.CAPACITOR 400V 82U	1	
C1010		ECKD3D331KB	C.CAPACITOR 2KV 330P	1	
C1011		ECQE6473MZ	P.CAPACITOR 630V 0.047U	1	
C1012		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1013		ECEA1AGE470	E.CAPACITOR 10V 47U	1	
C1014		ECQB1H472KH	P.CAPACITOR 50V 4700P	1	
C1016		ECQP1101T	M.CAPACITOR 100V 100P	1	
C1017		ECEA1DFZ681Z	E.CAPACITOR 20V 680U	1	
C1018		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1019		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1020		ECEA0JEE331	E.CAPACITOR 6.3V 330U	1	
C1021		ECEA1HGE101	E.CAPACITOR 50V 100U	1	
C1022		ECEA1DFZ681Z	E.CAPACITOR 20V 680U	1	
C1023-25		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	3	
C1026		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1027		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1028		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1029		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1033		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C1035		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
			DIODES		
D1001		ENB461D-05A	SURGE ABSORBER 460V	1	
D1002		MA178	DIODE	1	
D1004		S1WBA60	DIODE	1	<!>
D1007		ERA22-02	DIODE	1	
D1008		RL4ZLF-M1	DIODE	1	
D1009		MA185	DIODE	1	
D1010,11		AK04V2	DIODE	2	
D1012		MA2200B	DIODE	1	
D1013		MA4130L	DIODE	1	
D1014		VSD0002	DIODE	1	
D1015		AP01CV2	DIODE	1	
D1017		SV03YS	DIODE	1	
			INTEGRATED CIRCUIT		
IC1001		STK5340	IC	1	
			COILS		
L1001		ELF18D221F	COIL	1	NV-G45EG <!>
L1001		EIF18D290A	COIL	1	NV-G45B <!>
L1002		ELC07D220	COIL 22U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CONNECTOR		
P1001		VJP1394T	CONNECTOR (MALE)	1	
			TRANSISTORS		
Q1001		STRD1806E	TRANSISTOR	1	<!>
Q1003		2SD1273	TRANSISTOR	1	(P)
Q1004		2SD1330	TRANSISTOR	1	
			COMBINATION PARTS		
			(TRANSISTOR & RESISTOR)		
QR1001		DTA143	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R1001		ERC12GM334	S.RESISTOR 1/2W 330K	1	
R1002		ERG1SJ823	M.RESISTOR 1W 82K	1	
R1003		ERG2SJ823	M.RESISTOR 2W 82K	1	
R1004		ERW2PKR39	WIRE WOUND 2W 0.39	1	
R1005,06		ERDS2TJ563	C.RESISTOR 1/4W 56K	2	
R1007		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R1008		ERG2SJ181	M.RESISTOR 2W 180	1	
R1012		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1013		ERF2AK2R2	W.RESISTOR 2W 2.2	1	
R1014		ERDS2TJ153	C.RESISTOR 1/4W 15K	1	
R1015,16		ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R1018		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1019		ERG12ANJ182	M.RESISTOR 1/2W 1800	1	
			TRANSFORMER		
T1001		VLT0515	TRANSFORMER	1	<!>
			MISCELLANEOUS		
		VMZ1183	CAPACITOR COVER	4	(FOR C1004,C1005,
					C1007,C1008) <!>
		VMZ1184	CAPACITOR COVER	1	(FOR C1006) <!>
		VJS1972	AC INLET	1	<!>
		VJF0318	FUSE HOLDER	2	<!>
	■	VEK3583	MECHANISM CONNECTION C.B.A.		(NLA)
			CONNECTORS		
P1504		VJS2342	CONNECTOR	1	
P1505		VJP1242	CONNECTOR	1	
			RESISTORS		
R1501		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R1502		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
		VEK3555	REEL SENSOR C.B.A.	1	(NLA)
			INTEGRATED CIRCUIT		
IC1501		ON2170	IC	1	

To guarantee the FUNCTION,SAFETY and RELIABLITY of repaired units,only use ORIGINAL REPLACEMENT PARTS which are listed with their part numbers in this parts list section.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CONNECTOR		
P1506		VJP1242T	CONNECTOR	1	
	■	VXA2689	LED C.B.A.		(NLA)
			DIODE		
D1501		GL450	PHOTO DIODE	1	
			MISCELLANEOUS		
		VMD0911	LED HOLDER	1	
	■	VEK3577	TAKE UP PHOTO Tr. C.B.A.		(NLA)
			CAPACITOR		
C1502		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
			CONNECTOR		
P1508		VJS2165	CONNECTOR	1	
			TRANSISTOR		
Q1502		PN150NV	TRANSISTOR	1	
			RESISTOR		
R1503		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
			MISCELLANEOUS		
		VMD0645	PHOTO Tr. HOLDER	1	
	■	VEK3578	SUPPLY PHOTO Tr. C.B.A.		(NLA)
			CAPACITOR		
C1501		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
			TRANSISTOR		
Q1501		PN150NV	TRANSISTOR	1	
			MISCELLANEOUS		
		VMD0645	PHOTO Tr. HOLDER	1	
	■	VEP66030A	REMOTE CONTROL UNIT C.B.A.		(NLA)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C1		ECEA0GKS101	E.CAPACITOR 4V 100U	1	
C2		ECKF1H121KB	C.CAPACITOR 50V 120P	1	
C3		ECKF1H121KB	C.CAPACITOR 50V 120P	1	
C4		ECQB1H222KH	M.CAPACITOR 50V 2200P	1	
			DIODES		
D1		LN66-S	LED	1	
D2		MA165	DIODE	1	
D3		MA165	DIODE	1	
D4		MA165	DIODE	1	
D5		MA165	DIODE	1	
D6		MA165	DIODE	1	
D7		MA165	DIODE	1	
D8		MA165	DIODE	1	
D9		MA165	DIODE	1	
			INTEGRATED CIRCUIT		
IC1		MN6011M	IC	1	
			COMBINATION PARTS		
			(TRANSISTOR & RESISTORS)		
QR1		UN1231	TRANSISTOR-RESISTOR	1	
			RESISTOR		
R1		ERDS2TJ1R0	C.RESISTOR 1/2W 1	1	
			CRYSTAL OSCILLATOR		
X1		VSX0201	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJR0253	ELECTRODE (+)	1	
		VJR0254	ELECTRODE (-)	1	
	■	VEP66039C	DIGITAL SCANNER C.B.A.		NV-G45EG (NLA)
		VEP66039B			NV-G45B
			CAPACITORS		
C01		ECEV1CA470P	E.CAPACITOR 16V 47U	1	
C02		ECEV1HAN010R	E.CAPACITOR 50V 1U	1	
C03		ECUM1E104ZFM	CHIP 25V 0.1U	1	
C04		ECUM1E104ZFM	CHIP 25V 0.1U	1	
C05		ECES1CY105Z	T.CAPACITOR 16V 1U	1	
C06		ECEV1CA470P	E.CAPACITOR 16V 47U	1	
C07		ECUM1H330JCN	CHIP 50V 33P	1	
C08		ECUM1H330JCN	CHIP 50V 33P	1	
C09		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C10		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C11		ECUM1H103ZFN	CHIP 50V 0.01U	1	
C12		ECUM1H103ZFN	CHIP 50V 0.01U	1	
			DIODES		
D01		MA151WK	DIODE	1	
D04		MA151WK	DIODE	1	
D05		MA153	DIODE	1	
D06		SE303ACY	DIODE	1	

To guarantee the FUNCTION,SAFETY and RELIABLITY of repaired units,only use ORIGINAL REPLACEMENT PARTS which are listed with their part numbers in this parts list section.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			INTEGRATED CIRCUITS		
IC01		MN158453VPB	IC	1	
IC02		UPC324G2	IC	1	
IC03		RC78L02UAA1	IC	1	
			COIL		
L01		ELT3K017B	COIL	1	
			LCD		
LCD01		VSL0131A	LCD	1	OR VSL0131B
			TRANSISTORS		
Q01		2SB710	TRANSISTOR	1	
Q02		2SB710	TRANSISTOR	1	
Q03		2SB709	TRANSISTOR	1	
Q05		2SB709	TRANSISTOR	1	
			COMBINATION PARTS		
			(TRANSISTOR & RESISTORS)		
QR04		FA1L4Z	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R01		ERJ6GMYJ560	CHIP 1/16W 56	1	
R02		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R03		ERJ6GMYJ153	CHIP 1/16W 15K	1	
R04		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R05		ERJ6GMYJ202	CHIP 1/16W 2K	1	
R06		ERJ6GMYJ244	CHIP 1/16W 240K	1	
R07		ERJ6GMYJ162	CHIP 1/16W 1.6K	1	
R08		ERJ6GMYJ244	CHIP 1/16W 240K	1	
R09		ERJ6GMYJ474	CHIP 1/16W 470K	1	
R10		ERJ6GMYK106	CHIP 1/16W 10M	1	
R11		ERJ6GMYJ105	CHIP 1/16W 1M	1	
R12		ERJ6GMYK106	CHIP 1/16W 10M	1	
R13		ERJ6GMYJ361	CHIP 1/16W 360	1	
R14		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R15		ERJ6GMYJ332	CHIP 1/16W 3.3K	1	
R16		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R17		ERJ6GMYJ682	CHIP 1/16W 6.8K	1	
R18		ERJ8GCYJ120	CHIP 1/8W 12	1	
R19		ERJ6GMYJ474	CHIP 1/16W 470K	1	
R21		ERJ6GMYJ474	CHIP 1/16W 470K	1	
R23		ERJ6GMYJ681	CHIP 1/16W 680	1	
R24		ERJ6GMYJ102	CHIP 1/16W 1K	1	
R29		ERJ8GCYJ150	CHIP 1/8W 15	1	
			SENSOR		
SN01		VSQ0567	SENSOR	1	OR VSQ0571
			SWITCHES		
SW01		VSS0126	SLIDE SWITCH	1	
SW02		EVQQFV02K	SWITCH	1	
			VARIABLE RESISTOR		
VR09		EVND4KA00B25	V.RESISTOR 20K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CRYSTAL OSCILLATORS		
X01		VSX0246	CRYSTAL OSCILLATOR	1	
X02		EFBAL30D001K	BUZZER	1	
			MISCELLANEOUS		
		VGQ1406	TERMINAL BASE	1	
		VJR0401	TERMINAL ANGLE	2	
		VMX1324	SPACER	1	
	■	ENC87966	RF CONVERTER		NV-G45EG <!> (NLA)
			DIODES		
D1		MA1075	ZENER	1	
D2		HSM276S	DIODE	1	
D3		MA166	DIODE	1	
D4		MA166	DIODE	1	
			INTEGRATED CIRCUIT		
IC1		LA7051	IC	1	
			TRANSISTORS		
Q1		2SC2570A	TRANSISTOR	1	
Q2		2SC2570A	TRANSISTOR	1	
			NOTE:		
			THE OTHER PARTS FOR		
			RF CONVERTER ARE NOT		
			AVAILABLE AS SPARE PARTS.		
	■	ENC87962	RF CONVERTER		NV-G45B <!> (NLA)
			DIODES		
D1		MA1075	ZENER	1	
D2		HSM276S	DIODE	1	
D3		MA166	DIODE	1	
D4		MA75WK	DIODE	1	
D5		MA166	DIODE	1	
			INTEGRATED CIRCUIT		
IC1		LA7051	IC	1	
			TRANSIATORS		
Q1		2SC2570A	TRANSIATOR	1	
Q2		2SC2570A	TRANSIATOR	1	
Q3		2SC3130	TRANSIATOR	1	
			NOTE:		
			THE OTHER PARTS FOR		
			RF CONVERTER ARE NOT		
			AVAILABLE AS SPARE PARTS.		

To guarantee the FUNCTION,SAFETY and RELIABLITY of repaired units,only use ORIGINAL REPLACEMENT PARTS which are listed with their part numbers in this parts list section.

Order No. VRD8904S005

Service Manual

Video Product

Model No. Mentioned Below

Supplement

Effective from: Mentioned Below

Subject: Mentioned Below

Please use this manual together with the Service Manual for Order No. Mentioned Below
Model No. Mentioned Below

The following parts have been changed for rationalization by rearrangement of Luminance & Chrominance C.B.A..

[1] Effective from: Running change (EXCEPT NV-G45EG/B)
First Production (ONLY NV-G45EG)
D8K..... (ONLY NV-G45B)

Subject: Correction of Service Manual

Model No.: NV-G33EN/EN-S/BD
NV-G45EG/B/A/A-W/EA
NV-D38EN
NV-D48A/EA

Order No.: VRD8711M163,VRD8712M165,VRD8801M102,VRD8801M104,VRD8801M105
VRD8801M106,VRD8802M115

[PARTS LIST]

Interchangeability Code See the I/C column on the following Parts Number list.

	Parts	Set Production		Parts	Set Production		Parts	Set Production		Parts	Set Production		
A	Original	Early	B	Original	Early	C	Original	Early	D	Original	Early	E	Addition
	New	Late		New	Late		New	Late		New	Late	F	Deletion
												G	Other

Parts Number

Ref No.	Original Part No.	New Part No.	Part Name & Descriptions	I/C	Remarks
	VEP03402L	VEP03543C	LUMINANCE & CHROMINANCE PACK C.B.A.	B	NV-G33BD
	VEP03402M	VEP03543D	LUMINANCE & CHROMINANCE PACK C.B.A.	B	NV-G33EN/EN-S NV-G45A/A-W/EA NV-D38EN NV-D48A/EA
	VEP03402K	VEP03543F	LUMINANCE & CHROMINANCE PACK C.B.A.	B	NV-G45B
	VEP03402J	VEP03543E	LUMINANCE & CHROMINANCE PACK C.B.A.	G	NV-G45EG

Panasonic/National

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

Printed in Japan

CAUTION: If you replace the new Luminance & Chrominance Pack C.B.A. VEP03543C/D/F to the unit (NV-G45B, NV-G33EN/EN-S/BD, NV-G45A/A-W/EA, NV-D38EN, NV-D48A/EA) which employs the original Luminance & Chrominance Pack C.B.A. VEP03402K/L/M, remove the L3013 and C3073 on MAIN C.B.A. and then connect a jumper wire between pin 30 and pin 33 of Luminance & Chrominance Pack C.B.A..

[2] Effective from: ~~First Production~~

⇩

Running Change

Subject: Correction of Supplement Service Manual (VRD8806S111)

Model No.: NV-G40EG/B/A/EA

Order No.: VRD8806S111 (Supplement Service Manual)

[PARTS LIST]

Interchangeability Code See the I/C column on the following Parts Number list.

	Parts	Set Production		Parts	Set Production		Parts	Set Production		Parts	Set Production		
A	Original New	Early Late	B	Original New	Early Late	C	Original New	Early Late	D	Original New	Early Late	E F G	Addition Deletion Other

Parts Number

Ref No.	Original Part No.	New Part No.	Part Name & Descriptions	I/C	Remarks
	VEP03402L	VEP03543C	LUMINANCE & CHROMINANCE PACK C.B.A.	B	NV-G40EG
	VEP03402M	VEP03543D	LUMINANCE & CHROMINANCE PACK C.B.A.	B	NV-G40B/A/EA

CAUTION: If you replace the new Luminance & Chrominance Pack C.B.A. VEP03543C/D to the unit (NV-G40EG/B/A/EA) which employs the original Luminance & Chrominance Pack C.B.A. VEP03402L/M, remove the L3013 and C3073 on MAIN C.B.A. and then connect a jumper wire between pin 30 and pin 33 of Luminance & Chrominance Pack C.B.A..

[3] Effective from: Running Change (Except model number with $\boxed{J}$ mark on the Serial Lavel)

Subject: Change of C.B.A. for NV-G40EG/B/A/EA & NV-G45A/EA

Model No.: NV-G40EG/B/A/EA, NV-G45A/EA

Order No.: VRD8712M165

[MAIN C.B.A.]

MAIN C.B.A. has been changed for rationalization by rearrangement of C.B.A. and to increase production.

[SUB MAIN C.B.A.]

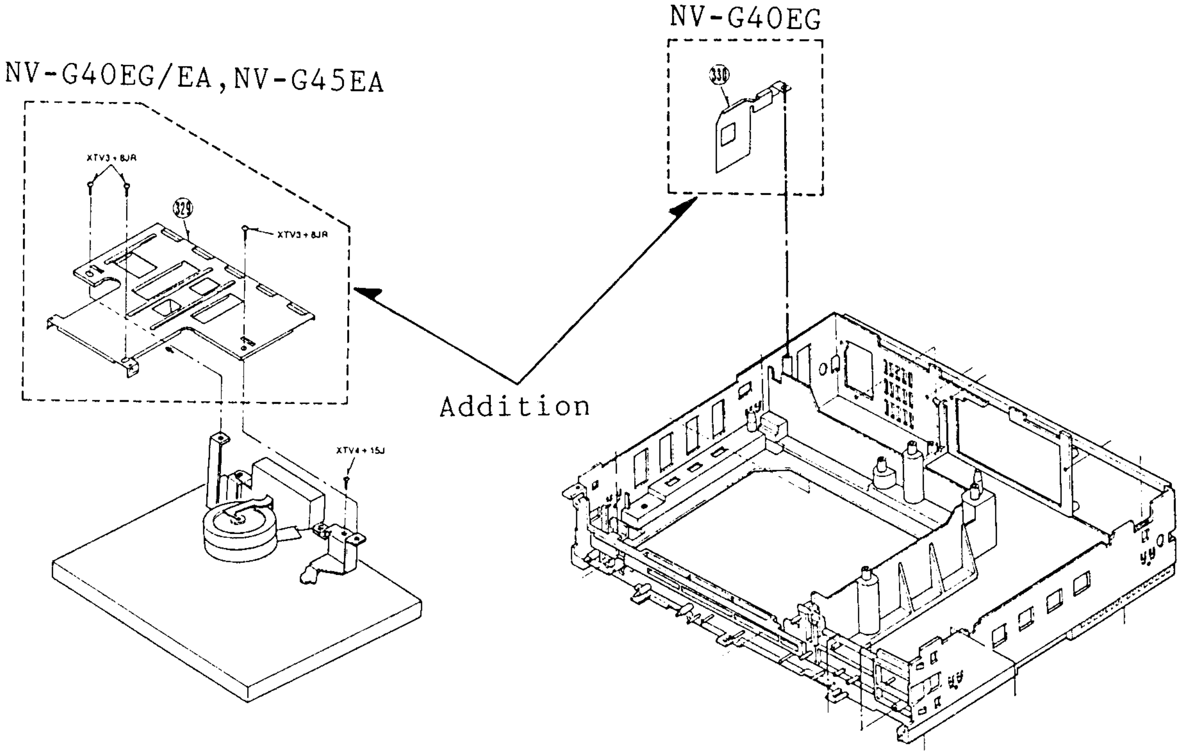
SUB MAIN C.B.A. has been changed for rationalization by rearrangement of C.B.A..

[TV DEMODULATOR PACK C.B.A.] (NV-G40EG)

TV DEMODULATOR PACK C.B.A. has been changed for no longer discontinuation of products

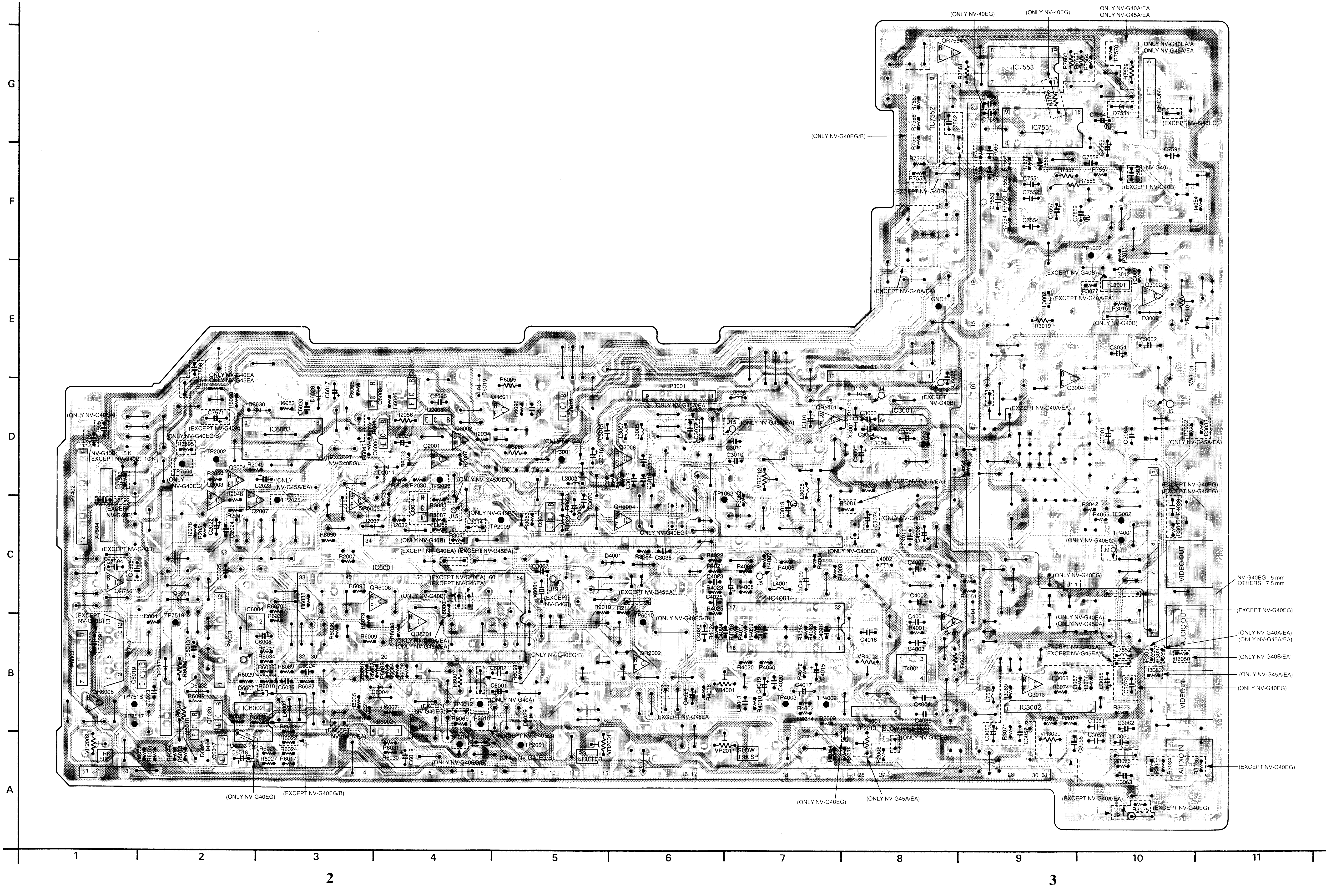
[EXPLODED VIEW]

④ CASING PARTS SECTION

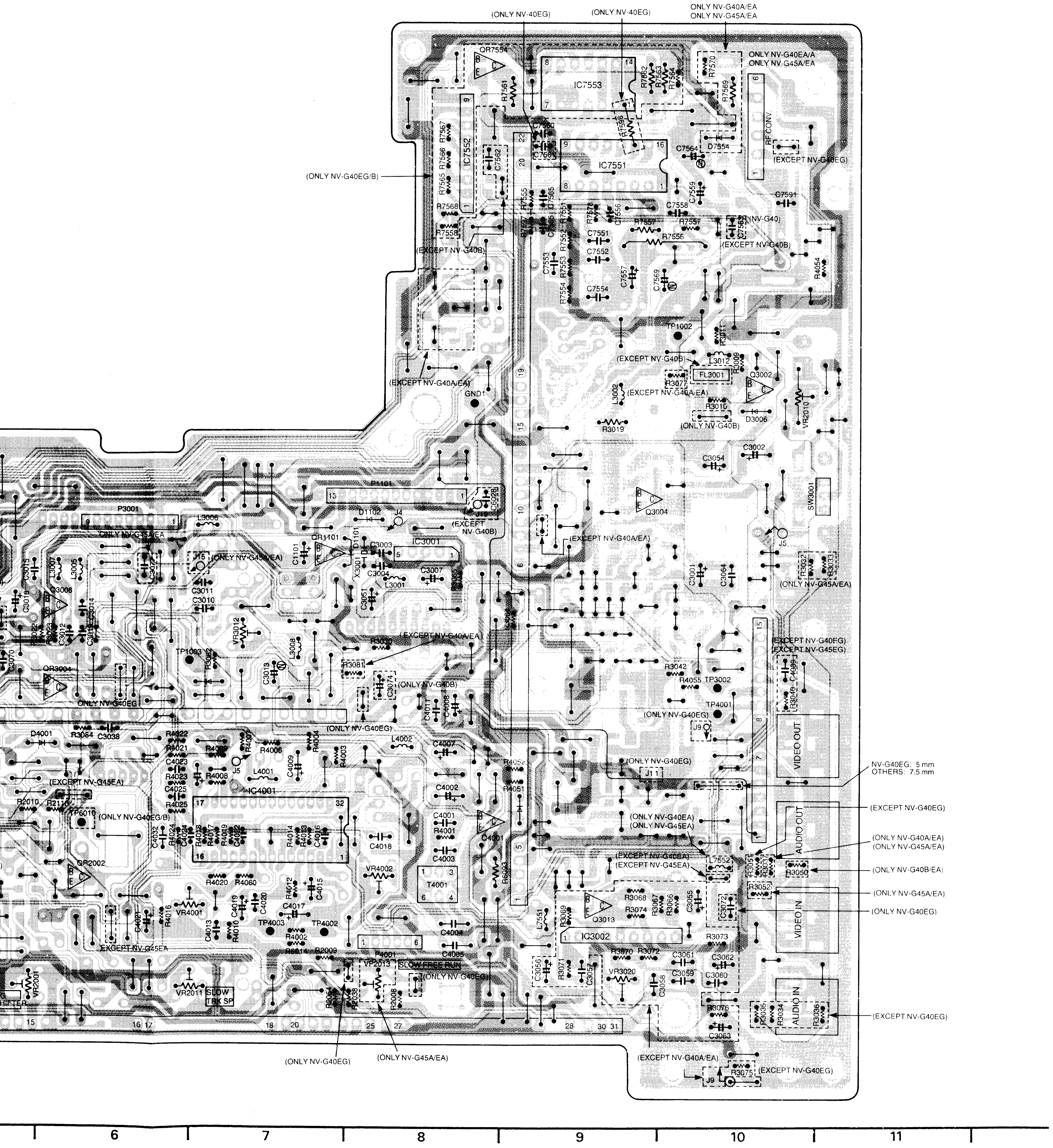

NV-G40EG
NV-G40EG/EA,NV-G45EA
XTV3+8JR
329
XTV3+8JR
330
Addition
XTV4+15J

When ordering BCI SHIELD CASE(NO.329) and EARTH ANGLE(NO.330), please refer to the parts list of this supplement service manual.

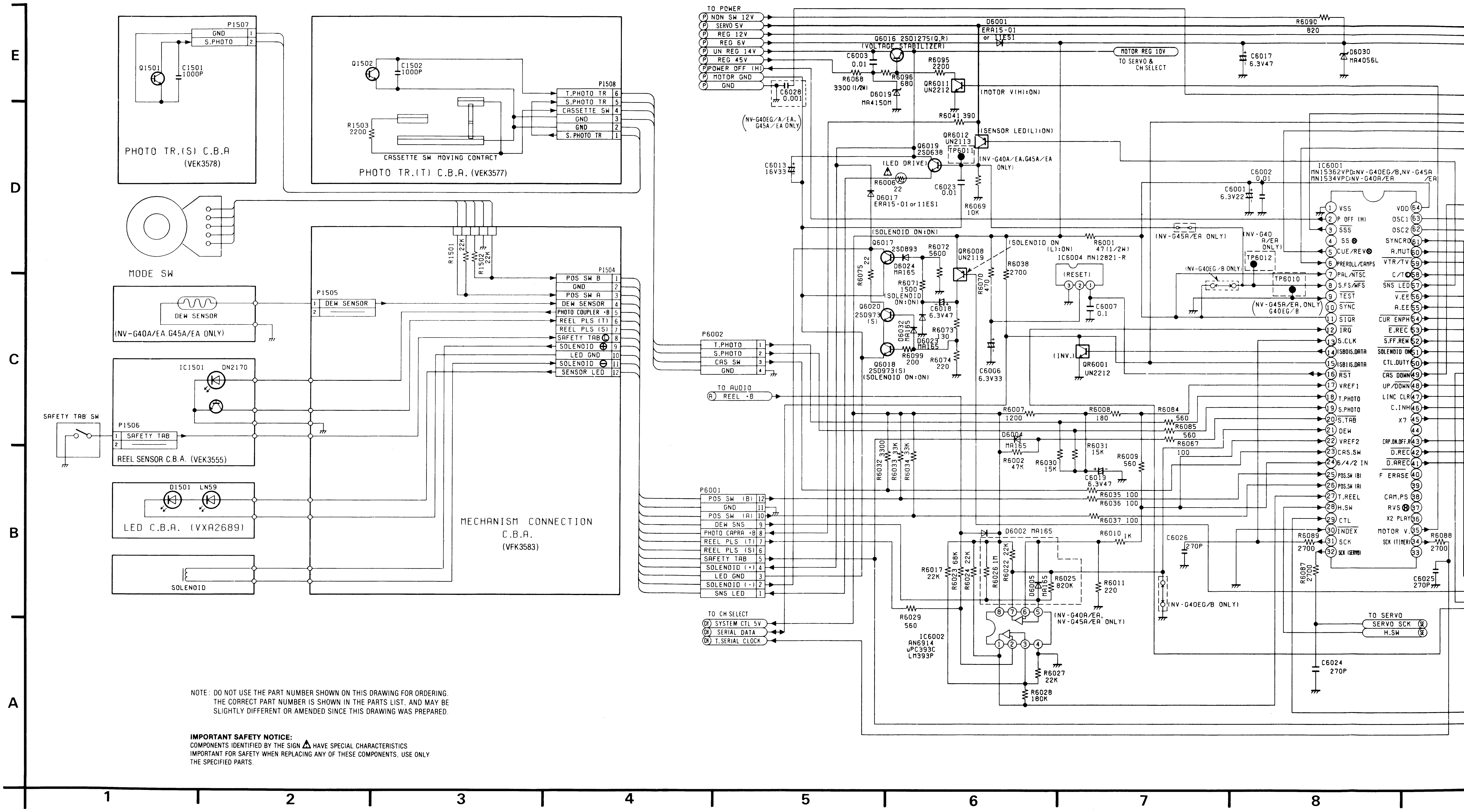
1. MAIN C.B.A. (VEP03493T: NV-G40EG) (VEP03493G: NV-G40B) (VEP03493C: NV-G40A) (VEP03493D: NV-G40EA) (VEP03493AC: NV-G45A) (VEP03493AD: NV-G45EA)


(ONLY NV-40EG)
(ONLY NV-40EG)
ONLY NV-G40A/EA
ONLY NV-G45A/EA
ONLY NV-G40EA/A
ONLY NV-G45A/EA
(ONLY NV-G40EG/B)
IC7553
IC7552
IC7551
RF CONV
(EXCEPT NV-G40EG)
(NV-G40)
(EXCEPT NV-G40B)
(EXCEPT NV-G40A/EA)
GND1
TP1002
FL3001
(ONLY NV-G40B)
SW3001
P1101
P3001
IC3001
(EXCEPT NV-G40B)
(ONLY NV-G45A/EA)
(ONLY NV-G40EA)
(ONLY NV-G40EG/B)
IC6003
P7402
X7504
(EXCEPT NV-G40B)
NV-G40B: 15 K
EXCEPT NV-G40B: 10 K
(ONLY NV-G40EG)
(ONLY NV-G45A/EA)
(ONLY NV-G40EG)
(EXCEPT NV-G40EG)
(EXCEPT NV-G40EA)
(EXCEPT NV-G45EA)
IC6001
IC6004
P6001
IC6002
IC4001
T4001
P4001
IC3002
VIDEO OUT
AUDIO OUT
VIDEO IN
AUDIO IN
NV-G40EG: 5 mm
OTHERS: 7.5 mm
(EXCEPT NV-G40EG)
(ONLY NV-G40A/EA)
(ONLY NV-G45A/EA)
(ONLY NV-G40B/EA)
(ONLY NV-G45A/EA)
(ONLY NV-G40EG)
(EXCEPT NV-G40EG)
(EXCEPT NV-G40A/EA)
(EXCEPT NV-G40EG)
SLOW FREE RUN
SLOW TRK SP
RG SHIFTER
TRK FIX
(ONLY NV-G40EG)
(EXCEPT NV-G40EG/B)
(ONLY NV-G40EG)
(ONLY NV-G45A/EA)
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
11
2
3

V-G45A)

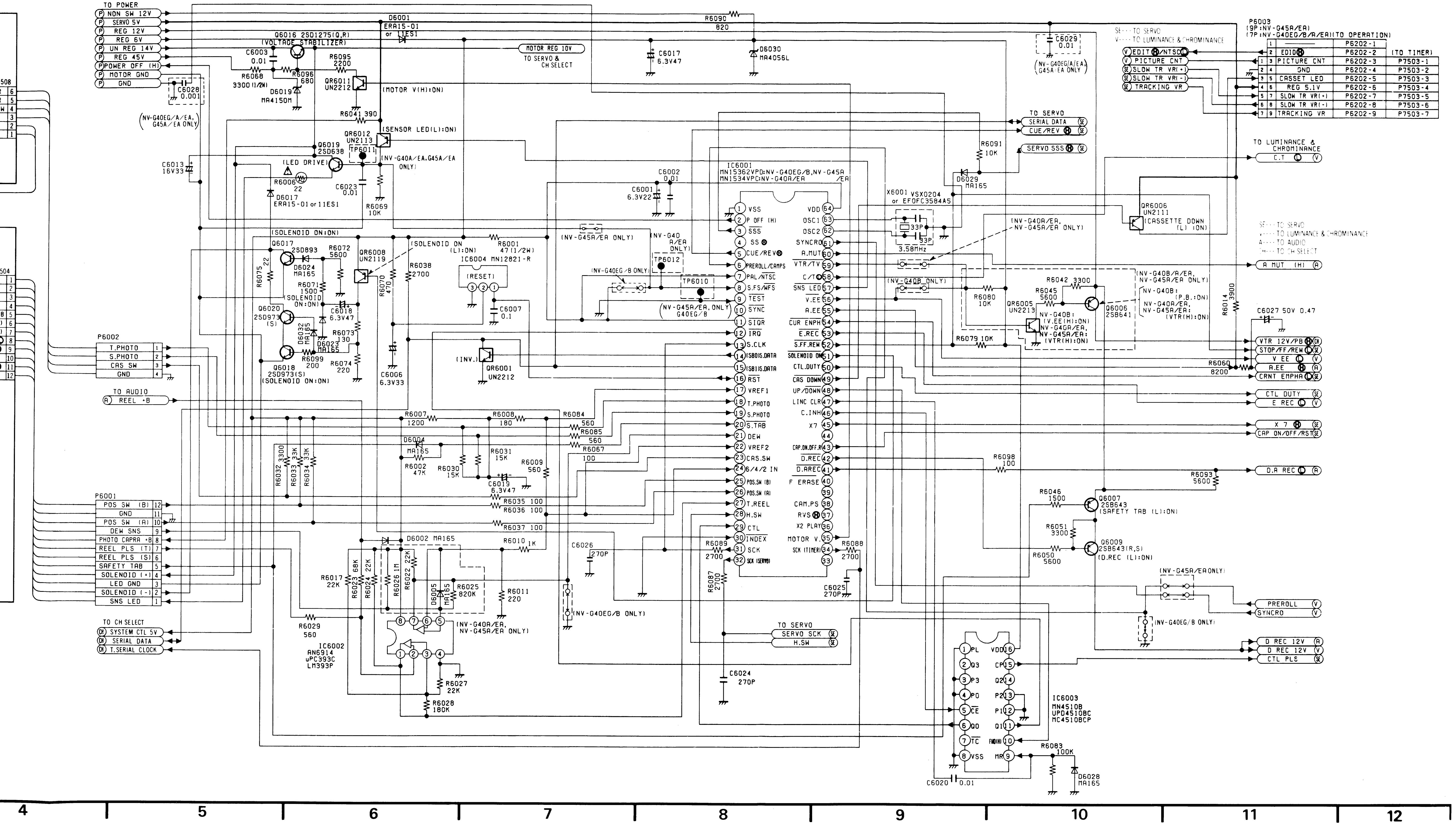

(ONLY NV-40EG)
(ONLY NV-40EG)
ONLY NV-G40A/EA
ONLY NV-G45A/EA
ONLY NV-G40EA/A
ONLY NV-G45A/EA
IC7553
IC7552
IC7551
QR7554
D7554
RF CONV
(EXCEPT NV-G40EG)
(ONLY NV-G40EG/B)
(NV-G40)
(EXCEPT NV-G40B)
(EXCEPT NV-G40A/EA)
GND1
TP1002
FL3001
Q3002
D3006
VR2010
(ONLY NV-G40B)
P1101
P3001
D1102
QR1101
IC3001
X3001
Q3004
SW3001
(EXCEPT NV-G40A/EA)
(ONLY NV-G45A/EA)
(EXCEPT NV-G40FG)
(EXCEPT NV-G45EG)
TP3002
TP4001
(ONLY NV-G40EG)
VIDEO OUT
NV-G40EG: 5 mm
OTHERS: 7.5 mm
(EXCEPT NV-G40EG)
AUDIO OUT
(ONLY NV-G40A/EA)
(ONLY NV-G45A/EA)
(ONLY NV-G40B/EA)
(ONLY NV-G45A/EA)
(ONLY NV-G40EG)
VIDEO IN
AUDIO IN
(EXCEPT NV-G40EG)
(EXCEPT NV-G40A/EA)
(EXCEPT NV-G40EG)
J9
IC3002
Q3013
(ONLY NV-G40EA)
(ONLY NV-G45EA)
(EXCEPT NV-G40EA)
(EXCEPT NV-G45EA)
IC4001
T4001
QR3004
QR2002
TP6010
(ONLY NV-G40EG/B)
(EXCEPT NV-G45EA)
TP1003
TP4003
TP4002
VR4001
VR4002
VR2011
VR2013
VR3020
SLOW TRK SP
SLOW FREE RUN
(ONLY NV-G40EG)
(ONLY NV-G45A/EA)
6
7
8
9
10
11

2. SYSTEM CONTROL SCHEMATIC DIAGRAM

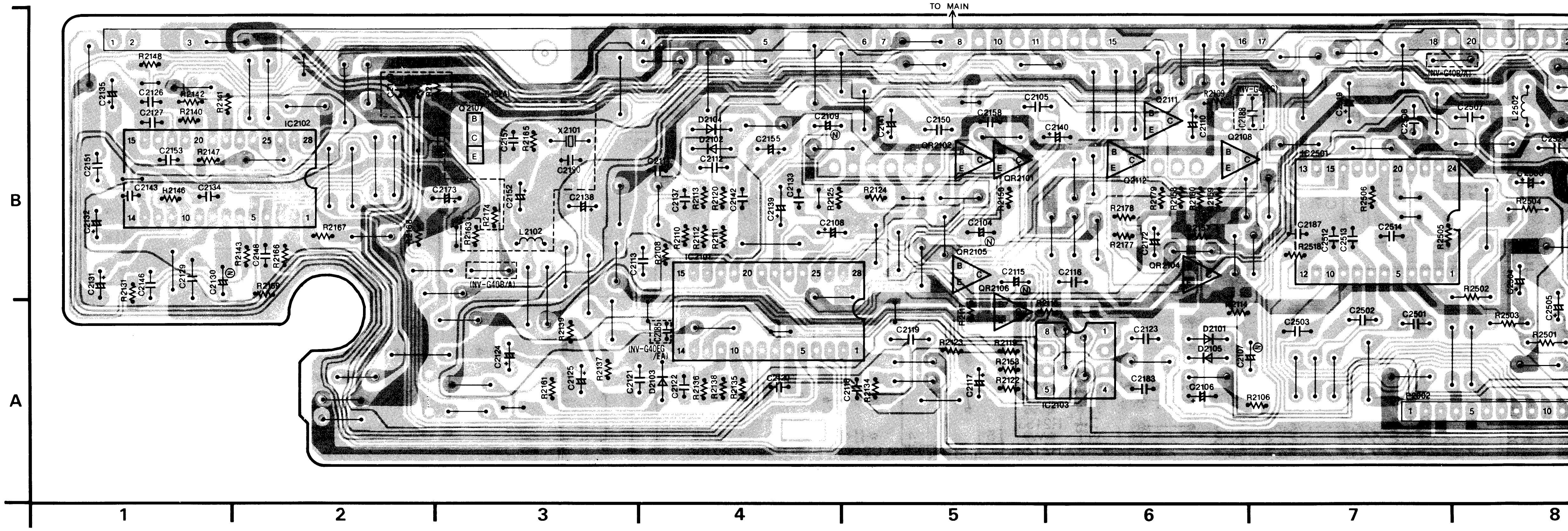

P1507
GND
S.PHOTO
Q1501
C1501 1000P
PHOTO TR.(S) C.B.A (VEK3578)
Q1502
C1502 1000P
R1503 2200
P1508
T.PHOTO TR
S.PHOTO TR
CASSETTE SW
GND
S. PHOTO TR
CASSETTE SW MOVING CONTACT
PHOTO TR.(T) C.B.A. (VEK3577)
MODE SW
R1501 22K
R1502 22K
P1504
POS SW B
POS SW A
DEW SENSOR
PHOTO COUPLER +B
REEL PLS (T)
REEL PLS (S)
SAFETY TAB
SOLENOID ⊕
LED GND
SOLENOID ⊖
SENSOR LED
P1505
DEW SENSOR
(NV-G40A/EA,G45A/EA ONLY)
IC1501 ON2170
SAFETY TAB SW
P1506
SAFETY TAB
REEL SENSOR C.B.A. (VEK3555)
D1501 LN59
LED C.B.A. (VXA2689)
SOLENOID
MECHANISM CONNECTION C.B.A. (VFK3583)
TO POWER
NON SW 12V
SERVO 5V
REG 12V
REG 6V
UN REG 14V
REG 45V
POWER OFF (H)
MOTOR GND
GND
C6028 0.001
(NV-G40EG/A/EA, G45A/EA ONLY)
D6001 ERA15-01 or 11ES1
Q6016 2SD1275(Q,R) (VOLTAGE STABILIZER)
C6003 0.01
R6068 3300 (1/2W)
R6096 680
D6019 MA4150M
R6095 2200
QR6011 UN2212 (MOTOR V(H):ON)
MOTOR REG 10V TO SERVO & CH SELECT
R6041 390
QR6012 UN2113 (SENSOR LED(L):ON)
Q6019 2SD638
TP6011
(NV-G40A/EA,G45A/EA ONLY)
C6013 16V33
(LED DRIVE)
R6006 22
D6017 ERA15-01 or 11ES1
C6023 0.01
R6069 10K
R6090 820
C6017 6.3V47
D6030 MA4056L
C6002 0.01
C6001 6.3V22
IC6001 MN15362VPD:NV-G40EG/B,NV-G45A/EA MN1534VPC:NV-G40A/EA
(SOLENOID ON:ON)
Q6017 2SD893
D6024 MA165
R6072 5600
QR6008 UN2119
R6075 22
R6071 1500 (SOLENOID ON:ON)
C6018 6.3V47
R6073 130
Q6020 2SD973(S)
D6032 MA165
D6023 MA165
R6099 200
R6074 220
Q6018 2SD973(S) (SOLENOID ON:ON)
R6070 470
R6038 2700
C6006 6.3V33
(SOLENOID ON (L):ON)
R6001 47(1/2W)
IC6004 MN12821-R
(RESET)
C6007 0.1
(NV-G45A/EA ONLY)
(NV-G40 A/EA ONLY)
TP6012
(NV-G40EG/B ONLY)
TP6010
(NV-G45A/EA,ONLY G40EG/B)
(INV.)
QR6001 UN2212
P6002
T.PHOTO
S.PHOTO
CAS SW
GND
TO AUDIO
REEL +B
R6007 1200
R6008 180
R6084 560
R6085 560
R6067 100
D6004 MA165
R6002 47K
R6030 15K
R6031 15K
R6009 560
C6019 6.3V47
R6032 3300
R6033 33K
R6034 33K
R6035 100
R6036 100
R6037 100
P6001
POS SW (B)
GND
POS SW (A)
DEW SNS
PHOTO CAPRA +B
REEL PLS (T)
REEL PLS (S)
SAFETY TAB
SOLENOID (+)
LED GND
SOLENOID (-)
SNS LED
D6002 MA165
R6010 1K
R6017 22K
R6023 68K
R6024 22K
R6026 1M
R6022 22K
D6005 MA165
R6025 820K
R6011 220
C6026 270P
(NV-G40EG/B ONLY)
(NV-G40A/EA, NV-G45A/EA ONLY)
R6029 560
IC6002 AN6914 uPC393C LM393P
R6027 22K
R6028 180K
TO CH SELECT
SYSTEM CTL 5V
SERIAL DATA
T.SERIAL CLOCK
R6089 2700
R6087 2700
R6088 2700
C6025 270P
C6024 270P
TO SERVO
SERVO SCK
H.SW
VSS
P OFF (H)
SSS
SS
CUE/REV
PREROLL/CAMPS
PAL/NTSC
S.FS/WFS
TEST
SYNC
STOR
IRQ
S.CLK
SBDIS.DATA
SBIIS.DATA
RST
VREF1
T.PHOTO
S.PHOTO
S.TAB
DEW
VREF2
CAS.SW
6/4/2 IN
POS.SW (B)
POS.SW (A)
T.REEL
H.SW
CTL
INDEX
SCK
SCK (SERVO)
VDD
OSC1
OSC2
SYNCRO
A.MUTE
VTR/TV
C/T
SNS LED
V.EE
A.EE
CUR ENPH
E.REC
S.FF.REW
SOLENOID ON
CTL.DUTY
CAS DOWN
UP/DOWN
LINC CLR
C.INH
X7
CRP.ON.OFF.R
D.REC
D.AREC
F ERASE
CAM.PS
RVS
X2 PLAY
MOTOR V.
SCK (TIMER)
A
B
C
D
E
1
2
3
4
5
6
7
8

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

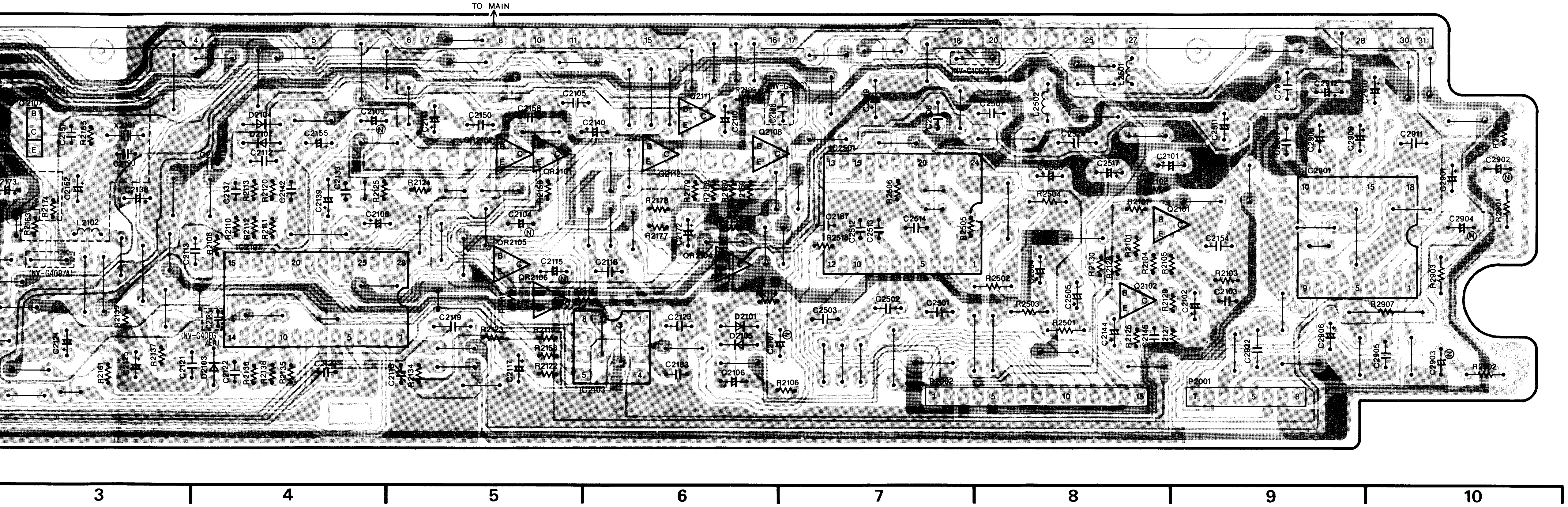
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SPECIFIED PARTS.


TO POWER
NON SW 12V
SERVO 5V
REG 12V
REG 6V
UN REG 14V
REG 45V
POWER OFF (H)
MOTOR GND
GND
Q6016 2SD1275(Q,R)
(VOLTAGE STABILIZER)
D6001 ERA15-01 or 11ES1
R6090 820
MOTOR REG 10V
TO SERVO & CH SELECT
C6017 6.3V47
D6030 MA4056L
C6029 0.01
(NV-G40EG/A/EA, G45A/EA ONLY)
C6003 0.01
R6068 3300(1/2W)
R6096 680
D6019 MA4150M
C6028 0.001
(NV-G40EG/A/EA, G45A/EA ONLY)
R6095 2200
QR6011 UN2212
(MOTOR V(H):ON)
R6041 390
QR6012 UN2113
(SENSOR LED(L):ON)
TP6011
(NV-G40A/EA,G45A/EA ONLY)
Q6019 2SD638
(LED DRIVE)
C6013 16V33
R6006 22
D6017 ERA15-01 or 11ES1
C6023 0.01
R6069 10K
IC6001
MN15362VPD:NV-G40EG/B,NV-G45A/EA
MN1534VPC:NV-G40A/EA
C6002 0.01
C6001 6.3V22
X6001 VSX0204 or EFOFC3584A5
33P
33P
3.58MHz
R6091 10K
D6029 MA165
TO SERVO
SERIAL DATA
CUE/REV
SERVO SSS
(SOLENOID ON:ON)
Q6017 2SD893
D6024 MA165
R6072 5600
QR6008 UN2119
(SOLENOID ON (L):ON)
R6001 47(1/2W)
IC6004 MN12821-R
(RESET)
C6007 0.1
R6038 2700
R6070 470
R6075 22
R6071 1500
(SOLENOID ON:ON)
Q6020 2SD973(S)
D6032 MA165
D6023 MA165
C6018 6.3V47
R6073 130
Q6018 2SD973(S)
(SOLENOID ON:ON)
R6099 200
R6074 220
C6006 6.3V33
(INV.)
QR6001 UN2212
(NV-G45A/EA ONLY)
(NV-G40 A/EA ONLY)
TP6012
(NV-G40EG/B ONLY)
TP6010
(NV-G45A/EA,ONLY G40EG/B)
1 VSS
2 P OFF (H)
3 SSS
4 SS
5 CUE/REV
6 PREROLL/CAMPS
7 PAL/NTSC
8 S.FS/AFS
9 TEST
10 SYNC
11 STQR
12 IRQ
13 S.CLK
14 ISB0IS.DATA
15 ISB1IS.DATA
16 RST
17 VREF1
18 T.PHOTO
19 S.PHOTO
20 S.TAB
21 DEW
22 VREF2
23 CAS.SW
24 6/4/2 IN
25 POS.SW (B)
26 POS.SW (A)
27 T.REEL
28 H.SW
29 CTL
30 INDEX
31 SCK
32 SCK (SERVO)
VDD 64
OSC1 63
OSC2 62
SYNCRO 61
A.MUT 60
VTR/TV 59
C/T 58
SNS LED 57
V.EE 56
A.EE 55
CUR ENPH 54
E.REC 53
S.FF.REW 52
SOLENOID ON 51
CTL.DUTY 50
CAS DOWN 49
UP/DOWN 48
LINC CLR 47
C.INH 46
X7 45
44
CAP.ON.OFF.R 43
D.REC 42
D.AREC 41
F ERASE 40
39
CAM.PS 38
RVS 37
X2 PLAY 36
MOTOR V. 35
SCK (TIMER) 34
33
(NV-G40A/EA, NV-G45A/EA ONLY)
(NV-G40B ONLY)
R6080 10K
R6045 5600
R6042 3300
QR6005 UN2213
Q6006 2SB641
(NV-G40B/A/EA, NV-G45A/EA ONLY)
NV-G40B: (P.B.:ON)
NV-G40A/EA, NV-G45A/EA: (VTR(H):ON)
NV-G40B: (V.EE(H):ON)
NV-G40A/EA, NV-G45A/EA: (VTR(H):ON)
R6079 10K
QR6006 UN2111
(CASSETTE DOWN (L):ON)
R6014 3900
R6060 8200
C6027 50V 0.47
SE····TO SERVO
V·····TO LUMINANCE & CHROMINANCE
A·····TO AUDIO
CH····TO CH SELECT
P6003
(9P:NV-G45A/EA)
(7P:NV-G40EG/B/A/EA)(TO OPERATION)
EDIT/NTSC
PICTURE CNT
SLOW TR VR(+)
SLOW TR VR(-)
TRACKING VR
1 P6202-1
2 EDIO P6202-2 (TO TIMER)
1 3 PICTURE CNT P6202-3 P7503-1
2 4 GND P6202-4 P7503-2
3 5 CASSET LED P6202-5 P7503-3
4 6 REG 5.1V P6202-6 P7503-4
5 7 SLOW TR VR(+) P6202-7 P7503-5
6 8 SLOW TR VR(-) P6202-8 P7503-6
7 9 TRACKING VR P6202-9 P7503-7
TO LUMINANCE & CHROMINANCE
C.T
A MUT (H)
VTR 12V/PB
STOP/FF/REW
V EE
A.EE
CRNT EMPHA
CTL DUTY
E REC
X 7
CAP ON/OFF/RST
D.A REC
R6098 100
R6093 5600
R6046 1500
Q6007 2SB643
(SAFETY TAB (L):ON)
R6051 3300
R6050 5600
Q6009 2SB643(R,S)
(D.REC (L):ON)
(NV-G45A/EA ONLY)
(NV-G40EG/B ONLY)
PREROLL
SYNCRO
D REC 12V
D REC 12V
CTL PLS
P6002
T.PHOTO 1
S.PHOTO 2
CAS SW 3
GND 4
TO AUDIO
REEL +B
R6007 1200
R6008 180
R6084 560
R6085 560
R6067 100
D6004 MA165
R6002 47K
R6030 15K
R6031 15K
C6019 6.3V47
R6009 560
R6032 3300
R6033 33K
R6034 33K
R6035 100
R6036 100
R6037 100
P6001
POS SW (B) 12
GND 11
POS SW (A) 10
DEW SNS 9
PHOTO CAPRA +B 8
REEL PLS (T) 7
REEL PLS (S) 6
SAFETY TAB 5
SOLENOID (+) 4
LED GND 3
SOLENOID (-) 2
SNS LED 1
D6002 MA165
R6010 1K
C6026 270P
(NV-G40EG/B ONLY)
R6017 22K
R6023 68K
R6024 22K
R6022 22K
R6026 1M
D6005 MA165
R6025 820K
R6011 220
R6029 560
IC6002 AN6914 uPC393C LM393P
(NV-G40A/EA, NV-G45A/EA ONLY)
R6027 22K
R6028 180K
TO CH SELECT
SYSTEM CTL 5V
SERIAL DATA
T.SERIAL CLOCK
R6089 2700
R6087 2700
R6088 2700
C6025 270P
TO SERVO
SERVO SCK
H.SW
C6024 270P
IC6003 MN4510B UPD4510BC MC4510BCP
1 PL
2 Q3
3 P3
4 P0
5 CE
6 Q0
7 TC
8 VSS
VDD 16
CP 15
Q2 14
P2 13
P1 12
Q1 11
RVS 10
MR 9
R6083 100K
D6028 MA165
C6020 0.01
508
504
4
5
6
7
8
9
10
11
12

3. SUB MAIN C.B.A. (VEP02302E: NV-G40EG) (VEP02302B: NV-G40B/A) (VEP02302D: NV-G40EA)


TO MAIN
IC2102
IC2101
IC2103
IC2501
Q2107
Q2108
Q2111
Q2112
QR2101
QR2104
QR2105
QR2106
X2101
L2102
L2502
(NV-G40B/A)
(NV-G40EG/EA)
B
A
1
2
3
4
5
6
7
8

VEP02302D: NV-G40EA)


TO MAIN
Q2107
X2101
L2102
IC2102
IC2103
IC2501
IC2901
Q2111
Q2112
Q2108
Q2101
Q2102
QR2100
QR2101
QR2104
QR2105
QR2106
D2101
D2102
D2103
D2104
D2105
L2501
L2502
P2001
P2002
R2101
R2102
R2103
R2104
R2105
R2106
R2110
R2111
R2112
R2113
R2120
R2122
R2124
R2125
R2130
R2134
R2136
R2137
R2138
R2161
R2174
R2177
R2178
R2501
R2502
R2503
R2504
R2505
R2506
R2518
R2901
R2902
R2903
R2907
C2101
C2102
C2103
C2104
C2105
C2106
C2107
C2108
C2109
C2110
C2113
C2115
C2116
C2117
C2119
C2121
C2122
C2123
C2124
C2125
C2133
C2137
C2138
C2139
C2140
C2142
C2144
C2150
C2152
C2154
C2155
C2158
C2183
C2187
C2188
C2501
C2502
C2503
C2505
C2507
C2511
C2513
C2514
C2517
C2524
C2901
C2902
C2903
C2904
C2905
C2906
C2909
C2910
C2911
C2912
C2916
C2922
(NV-G40B/A)
(NV-G40EG/EA)
3
4
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6
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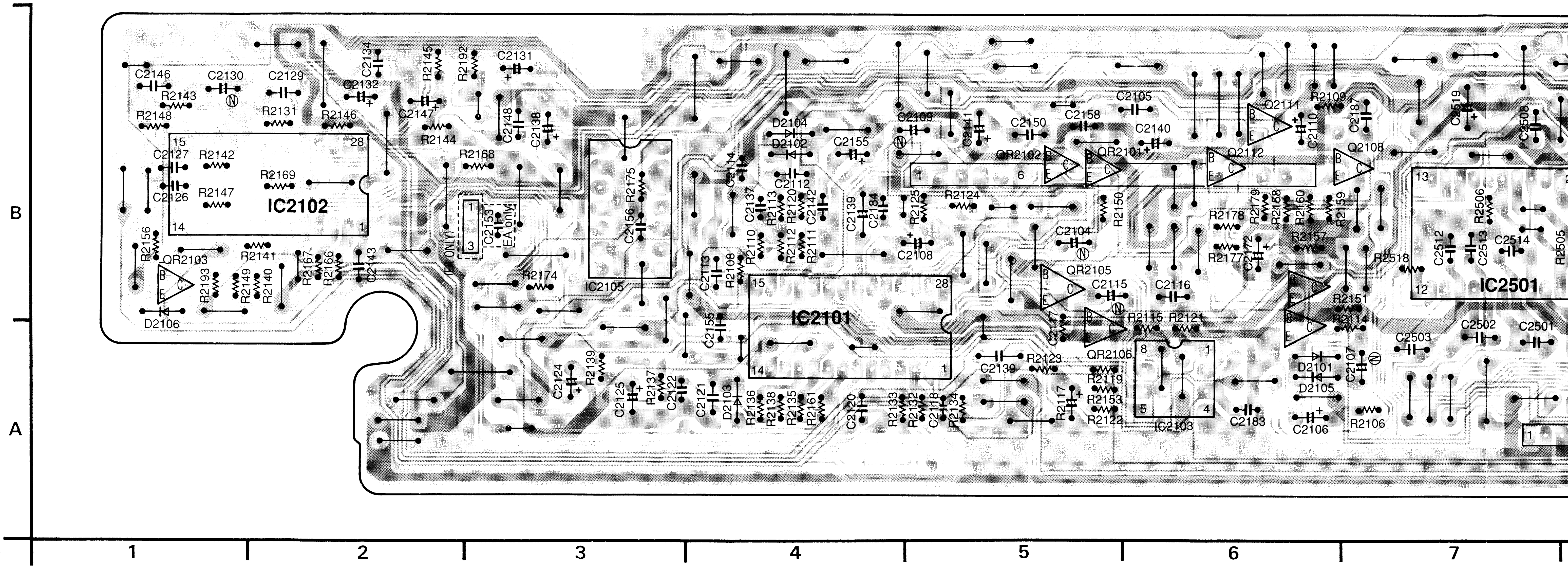
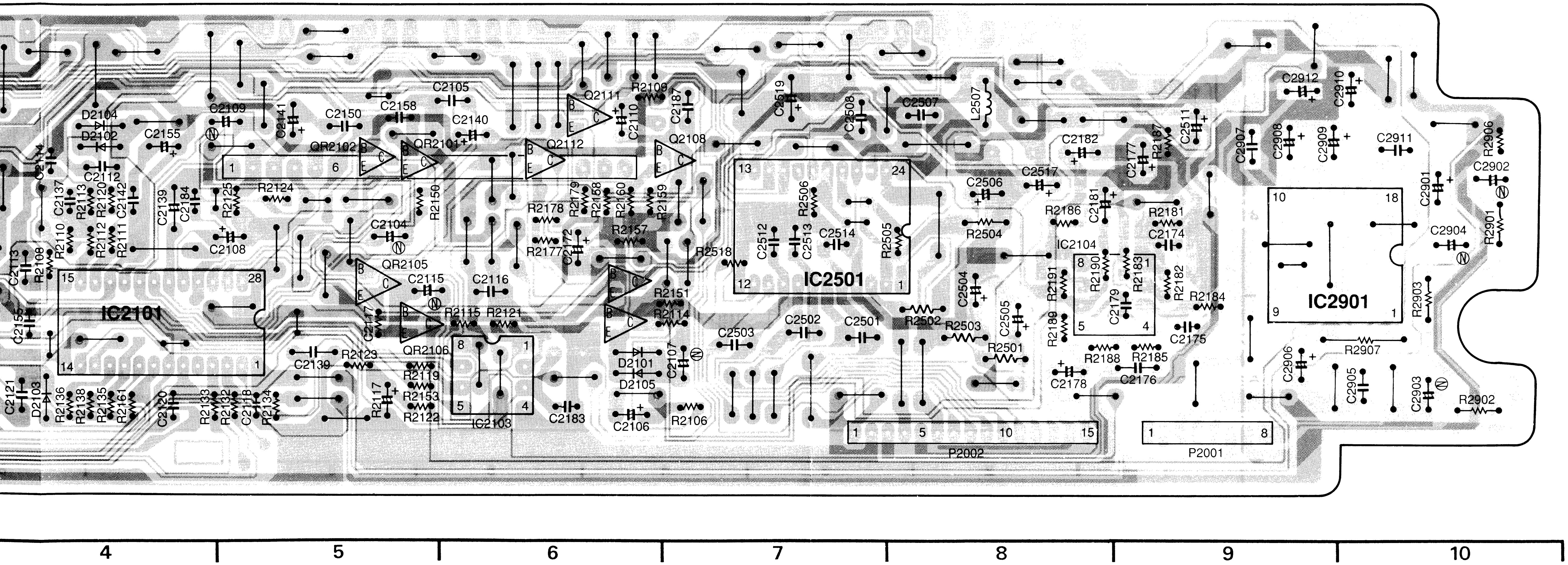
9
10

4. SUB MAIN C.B.A. (VEP02301B: NV-G45A/EA)


B
A
1
2
3
4
5
6
7
C2146
C2130
C2129
C2134
R2145
R2192
C2131
R2143
R2148
C2132
C2147
R2131
R2146
R2144
C2148
C2138
C2127
C2126
R2142
R2147
R2169
IC2102
15
28
14
1
R2168
R2175
C2156
IC2105
C2153
EA only
(EA ONLY)
R2156
QR2103
R2193
R2149
R2140
R2141
R2167
R2166
C2143
R2174
D2106
D2104
D2102
C2114
C2112
C2155
C2137
R2113
R2120
R2112
R2111
C2142
C2139
C2184
C2109
C2141
R2125
R2124
C2108
C2150
C2158
C2105
C2140
QR2102
QR2101
Q2111
Q2112
R2109
C2110
C2187
Q2108
C2519
C2508
R2150
C2104
QR2105
C2115
R2115
R2121
C2116
R2178
R2177
R2179
R2158
R2160
R2159
R2157
C2172
R2518
R2151
R2114
C2113
R2108
R2110
IC2101
C2155
C2124
R2139
C2125
R2137
C2122
C2121
D2103
R2136
R2138
R2135
R2161
C2120
R2133
R2132
C2118
R2134
C2139
R2123
C2117
QR2106
R2119
R2153
R2122
R2117
IC2103
8
5
4
C2183
D2101
D2105
C2107
C2106
R2106
C2503
C2502
C2501
13
12
IC2501
R2506
C2512
C2513
C2514
R2505
6


IC2101
15
28
14
1
IC2501
13
24
12
1
IC2901
10
18
9
1
IC2103
8
1
5
4
IC2104
8
5
4
P2002
1
5
10
15
P2001
1
8
QR2102
QR2101
QR2105
QR2106
Q2111
Q2112
Q2108
B
C
E
D2104
D2102
D2103
D2101
D2105
L2507
C2109
C2141
C2150
C2158
C2105
C2140
C2187
C2110
C2155
C2112
C2114
C2137
C2142
C2139
C2184
C2108
C2104
C2115
C2116
C2117
C2113
C2153
C2121
C2120
C2118
C2139
C2183
C2106
C2107
C2172
C2519
C2508
C2507
C2512
C2513
C2514
C2502
C2501
C2503
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C2506
C2517
C2182
C2177
C2511
C2181
C2174
C2179
C2175
C2178
C2176
C2912
C2910
C2907
C2908
C2909
C2911
C2901
C2902
C2904
C2906
C2905
C2903
R2109
R2113
R2120
R2112
R2111
R2110
R2108
R2125
R2124
R2150
R2178
R2179
R2158
R2160
R2159
R2177
R2157
R2151
R2114
R2115
R2121
R2123
R2119
R2153
R2122
R2117
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R2138
R2135
R2161
R2133
R2132
R2134
R2106
R2518
R2506
R2505
R2504
R2502
R2503
R2501
R2186
R2187
R2181
R2191
R2190
R2183
R2182
R2184
R2189
R2188
R2185
R2906
R2901
R2903
R2907
R2902
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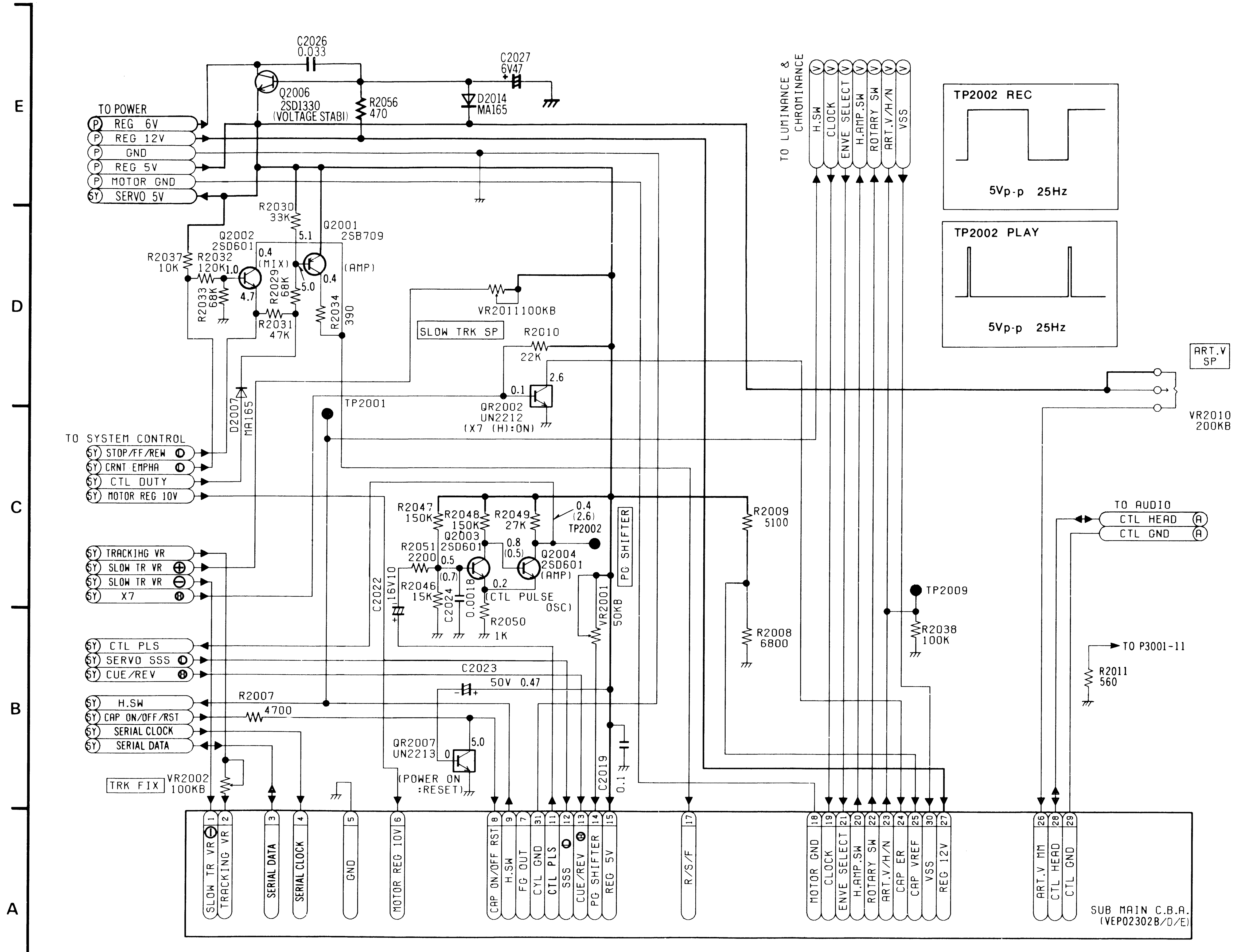
5. SERVO SCHEMATIC DIAGRAM (NV-G40EG/B/A/EA)

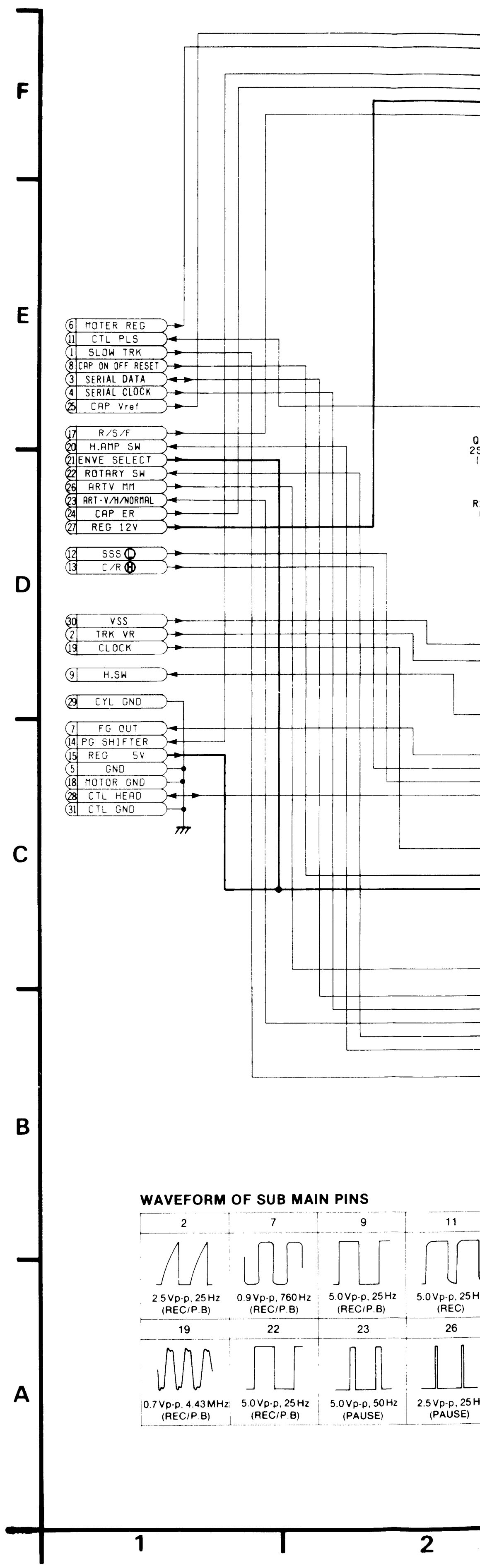


E
D
C
B
A
TO POWER
P REG 6V
P REG 12V
P GND
P REG 5V
P MOTOR GND
5Y SERVO 5V
C2026 0.033
Q2006 2SD1330 (VOLTAGE STABI)
R2056 470
C2027 6V47
D2014 MA165
R2030 33K
Q2002 2SD601
Q2001 2SB709
R2037 10K
R2032 120K
1.0
0.4 (MIX)
(AMP)
5.1
5.0
0.4
4.7
R2033 68K
R2029 68K
R2031 47K
R2034 390
VR2011 100KB
SLOW TRK SP
R2010 22K
2.6
0.1
QR2002 UN2212 (X7 (H):ON)
TP2001
D2007 MA165
TO SYSTEM CONTROL
5Y STOP/FF/REW Ⓛ
5Y CRNT EMPHA Ⓛ
5Y CTL DUTY
5Y MOTOR REG 10V
5Y TRACKIHG VR
5Y SLOW TR VR ⊕
5Y SLOW TR VR ⊖
5Y X7 Ⓗ
5Y CTL PLS
5Y SERVO SSS Ⓛ
5Y CUE/REV Ⓗ
5Y H.SW
5Y CAP ON/OFF/RST
5Y SERIAL CLOCK
5Y SERIAL DATA
R2007 4700
TRK FIX
VR2002 100KB
R2047 150K
R2048 150K
R2049 27K
Q2003 2SD601
R2051 2200
0.5
(0.7)
0.8 (0.5)
Q2004 2SD601 (AMP)
0.4 (2.6)
TP2002
C2022 16V10
R2046 15K
C2024 0.0018
0.2
(CTL PULSE OSC)
R2050 1K
VR2001 50KB
PG SHIFTER
C2023 50V 0.47
QR2007 UN2213
5.0
0
(POWER ON :RESET)
C2019 0.1
R2009 5100
R2008 6800
TO LUMINANCE & CHROMINANCE
V H.SW
V CLOCK
V ENVE SELECT
V H.AMP.SW
V ROTARY SW
V ART.V/H/N
V VSS
TP2009
R2038 100K
TP2002 REC
5Vp-p 25Hz
TP2002 PLAY
5Vp-p 25Hz
ART.V SP
VR2010 200KB
TO AUDIO
CTL HEAD A
CTL GND A
TO P3001-11
R2011 560
1 SLOW TR VR ⊖
2 TRACKING VR
3 SERIAL DATA
4 SERIAL CLOCK
5 GND
6 MOTOR REG 10V
8 CAP ON/OFF RST
9 H.SW
7 FG OUT
31 CYL GND
11 CTL PLS
12 SSS Ⓛ
13 CUE/REV Ⓗ
14 PG SHIFTER
15 REG 5V
17 R/S/F
18 MOTOR GND
19 CLOCK
20 ENVE SELECT
21 H.AMP.SW
22 ROTARY SW
23 ART.V/H/N
24 CAP ER
25 CAP VREF
30 VSS
27 REG 12V
26 ART.V MM
28 CTL HEAD
29 CTL GND
SUB MAIN C.B.A. (VEP02302B/D/E)
1
2
3
4
5
6

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST AND MAY BE
SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

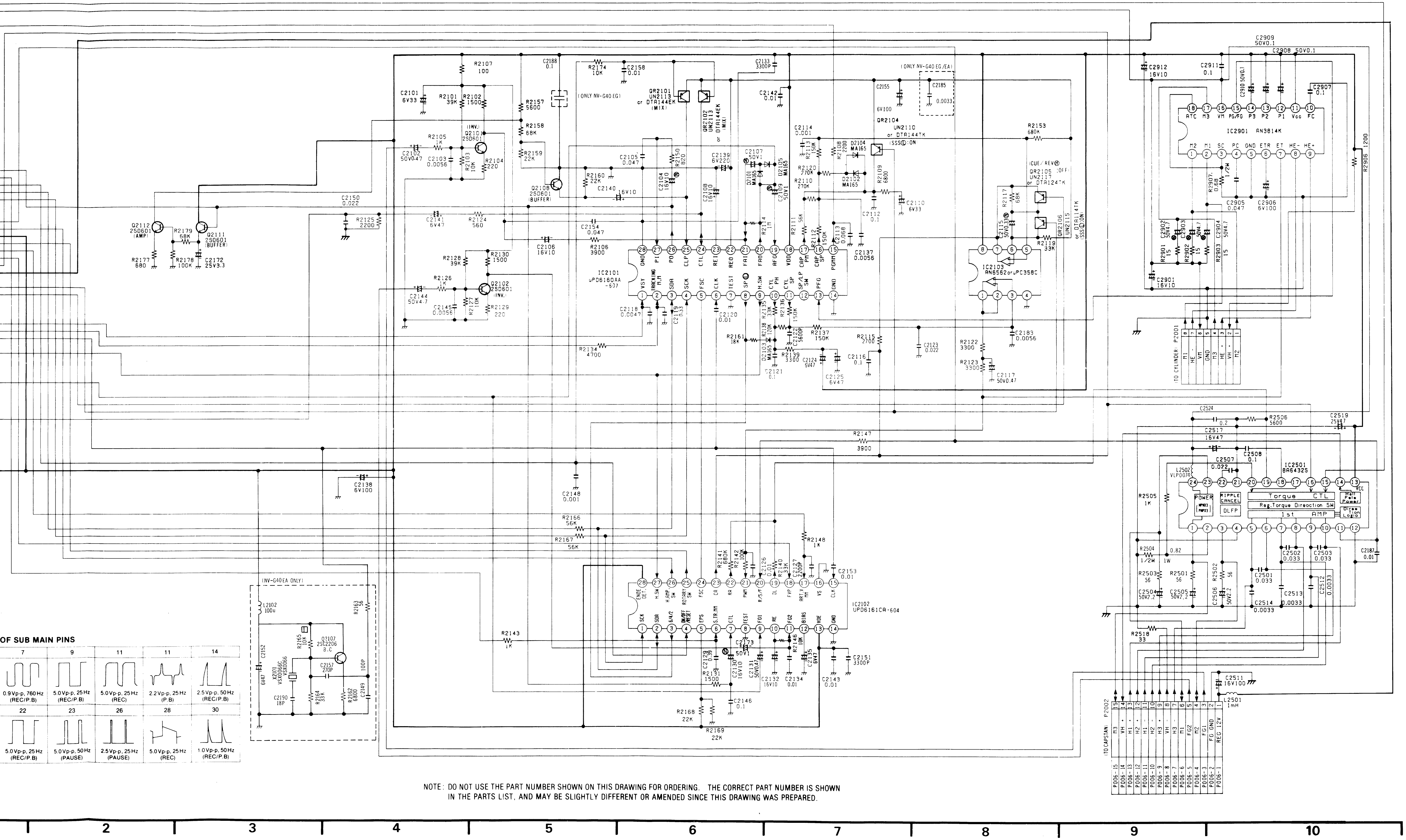
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE
WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
WITH PAL COLOUR SIGNAL.

6. SUB MAIN SCHEMATIC DIAG



F
E
D
C
B
A
6 MOTER REG
11 CTL PLS
1 SLOW TRK
8 CAP ON OFF RESET
3 SERIAL DATA
4 SERIAL CLOCK
25 CAP Vref
17 R/S/F
20 H.AMP SW
21 ENVE SELECT
22 ROTARY SW
26 ARTV MM
23 ART-V/H/NORMAL
24 CAP ER
27 REG 12V
12 SSS Ⓛ
13 C/R Ⓗ
30 VSS
2 TRK VR
19 CLOCK
9 H.SW
29 CYL GND
7 FG OUT
14 PG SHIFTER
15 REG 5V
5 GND
18 MOTOR GND
28 CTL HEAD
31 CTL GND
WAVEFORM OF SUB MAIN PINS
2
2.5Vp-p, 25Hz (REC/P.B)
7
0.9Vp-p, 760Hz (REC/P.B)
9
5.0Vp-p, 25Hz (REC/P.B)
11
5.0Vp-p, 25H (REC)
19
0.7Vp-p, 4.43MHz (REC/P.B)
22
5.0Vp-p, 25Hz (REC/P.B)
23
5.0Vp-p, 50Hz (PAUSE)
26
2.5Vp-p, 25H (PAUSE)
1
2

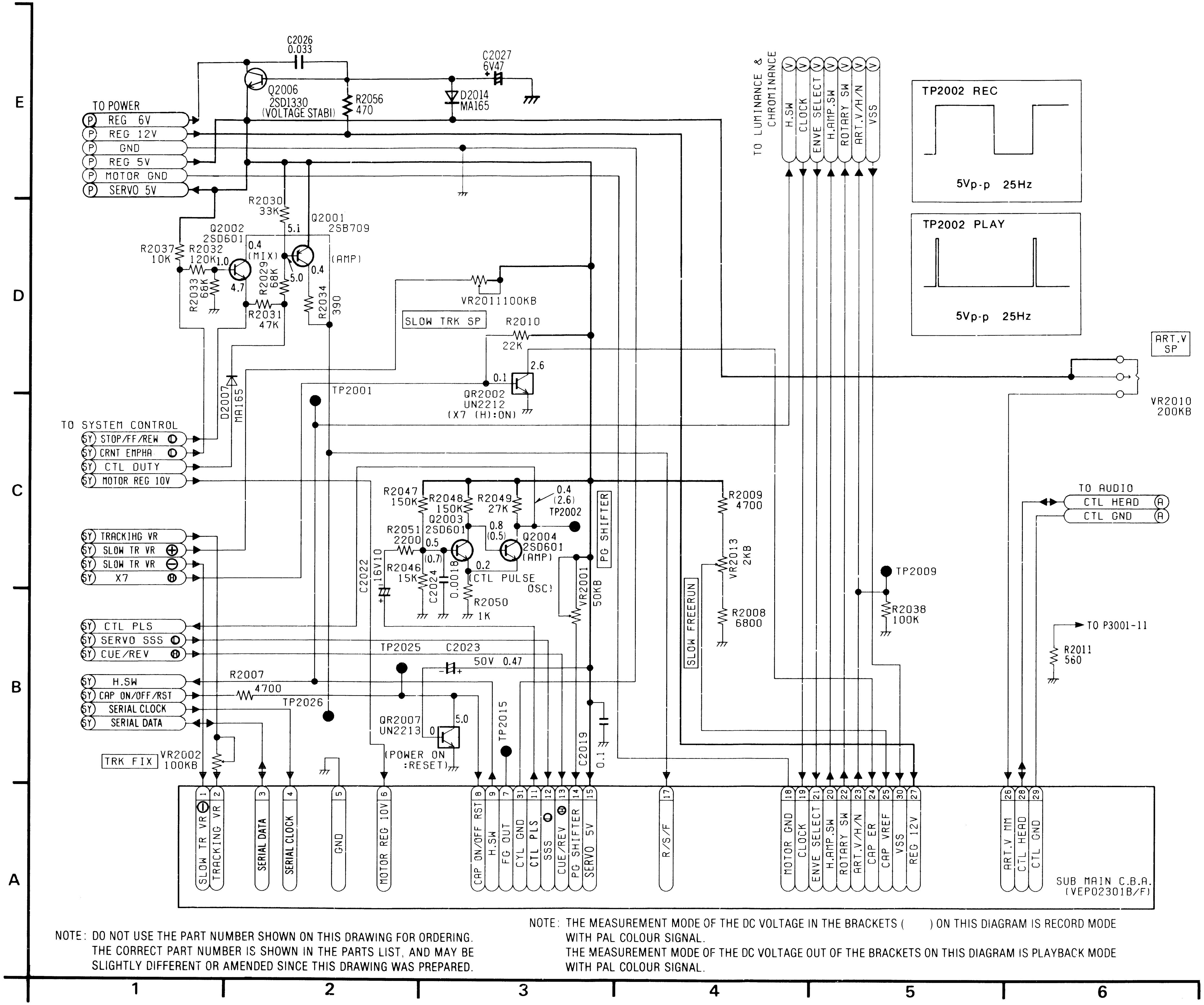
CHEMATIC DIAGRAM (VEP02302E: NV-G40EG), (VEP02302B: NV-G40B/A), (VEP02302D: NV-G40EA)



IC2101 uPD6160AA-607
IC2102 UPD6161CA-604
IC2103 AN6562 or uPC358C
IC2901 AN3814K
IC2501 BA6432S
Q2101 2SD601 (INV.)
Q2102 2SD601 (INV.)
Q2107 2SC2206 B.C
Q2108 2SD601 (BUFFER)
Q2111 2SD601 (BUFFER)
Q2112 2SD601 (AMP)
QR2101 UN2113 or DTA144EK (MIX)
QR2102 UN2113 or DTA144EK (MIX)
QR2104 UN2110 or DTA144TK (SSS:ON)
QR2105 UN2117 or DTA124TK (CUE/REV: OFF)
QR2106 UN2115 or DTA114TK (SSS:ON)
D2101 MA165
D2102 MA165
D2103 MA165
D2104 MA165
D2105 MA165
X2101 VSX0066C
L2102 100u
L2501 1mH
L2502 VLP0074
(ONLY NV-G40EG)
(ONLY NV-G40EG/EA)
(NV-G40EA ONLY)
R2107 100
R2101 39K
R2102 1500
R2103 10K
R2104 220
R2105 1K
R2157 5600
R2158 68K
R2159 22K
R2160 22K
R2174 10K
R2150 820
R2177 680
R2178 100K
R2179 68K
R2125 2200
R2124 560
R2106 3900
R2128 39K
R2130 1500
R2126 1K
R2127 10K
R2129 220
R2134 4700
R2113 150K
R2108 2200
R2120 270K
R2110 270K
R2109 6800
R2114 1M
R2111 56K
R2112 150K
R2153 680K
R2117 68K
R2119 33K
R2135 33K
R2136 33K
R2138 120K
R2137 150K
R2161 18K
R2139 3300
R2115 2700
R2122 3300
R2123 3300
R2147 3900
R2148 1K
R2166 56K
R2167 56K
R2141 680K
R2142 100K
R2140 33K
R2143 1K
R2163 56
R2165 10K
R2164 33K
R2162 6800
R2151 1500
R2146 10K
R2168 22K
R2169 22K
R2901 15
R2902 15
R2903 15
R2906 1200
R2907 0.68 1/2W
R2504 0.82 1/2W 1W
R2505 1K
R2503 56
R2501 56
R2502 56
R2506 5600
R2518 33
C2101 6V33
C2102 50V0.47
C2103 0.0056
C2188 0.1
C2158 0.01
C2105 0.047
C2104 16V10
C2140 16V10
C2150 0.022
C2172 25V3.3
C2141 6V47
C2154 0.047
C2106 16V10
C2144 50V4.7
C2145 0.0056
C2133 3300P
C2142 0.01
C2108 16V10
C2139 6V220
C2107 50V1
C2109 50V1
C2155 6V100
C2185 0.0033
C2114 0.001
C2112 0.1
C2110 6V33
C2113 0.068
C2137 0.0056
C2115 50V0.33
C2118 0.0047
C2119 0.33
C2120 0.01
C2122 5600P
C2124 5V47
C2121 0.1
C2125 6V47
C2116 0.1
C2123 0.022
C2183 0.0056
C2117 50V0.47
C2138 6V100
C2148 0.001
C2126 0.01
C2127 220P
C2153 0.01
C2152 6V47
C2190 18P
C2157 270P
C2149 100P
C2129 0.39
C2130 16V10
C2131 50V0.47
C2173 50V1
C2132 16V10
C2134 0.01
C2135 6V47
C2143 0.01
C2151 3300P
C2146 0.1
C2909 50V0.1
C2908 50V0.1
C2912 16V10
C2911 0.1
C2910 50V0.1
C2907 0.1
C2905 0.047
C2906 6V100
C2902 50V4.7
C2903 50V4.7
C2904 50V4.7
C2901 16V10
C2524 0.2
C2519 25V47
C2517 16V47
C2508 0.1
C2507 0.022
C2187 0.01
C2502 0.033
C2503 0.033
C2501 0.033
C2513 0.0033
C2512 0.0033
C2514 0.0033
C2504 50V2.2
C2505 50V2.2
C2506 50V2.2
C2511 16V100
GND P1 PG CLP CTL REI REO FAI FAO AFO VDD CAP PH CAP SP PGMA
VSY TRACKING SDA SCK FSC CLK TEST SP H.SW CYL PH CYL SP SP/LP SW PFG GND
ENDE DET. H.SW H.AMP SW ROTARY SW FSC CR RR PWM R/S/F DL FVP ART.V MM VS CLK
SCK SDA 6V/2 EPS S.TR.M CTL TEST FG1 RE BIAS VDE GND
ATC M3 VM PG/FG P3 P2 P1 Vcc FC
M2 M1 SC PC GND ETR ET HE- HE+
POWER RIPPLE CANCEL DLFP Torque CTL Reg.Torque Direction SW 1st AMP Hall Pole Power Direction Logic VCC
TO CYLINDER P2001
M1 HE- VM GND M3 HE+ VH M2
TO CAPSTAN P2002
M3 VH H1 H2 H1 H2 VH H3 M1 FG2 FG GND FG1 REG 12V
P006-15 P006-14 P006-13 P006-12 P006-11 P006-10 P006-9 P006-8 P006-7 P006-6 P006-5 P006-4 P006-3 P006-2 P006-1
OF SUB MAIN PINS
7: 0.9Vp-p, 760Hz (REC/P.B)
9: 5.0Vp-p, 25Hz (REC/P.B)
11: 5.0Vp-p, 25Hz (REC)
11: 2.2Vp-p, 25Hz (P.B)
14: 2.5Vp-p, 50Hz (REC/P.B)
22: 5.0Vp-p, 25Hz (REC/P.B)
23: 5.0Vp-p, 50Hz (PAUSE)
26: 2.5Vp-p, 25Hz (PAUSE)
28: 5.0Vp-p, 25Hz (REC)
30: 1.0Vp-p, 50Hz (REC/P.B)
2 3 4 5 6 7 8 9 10

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

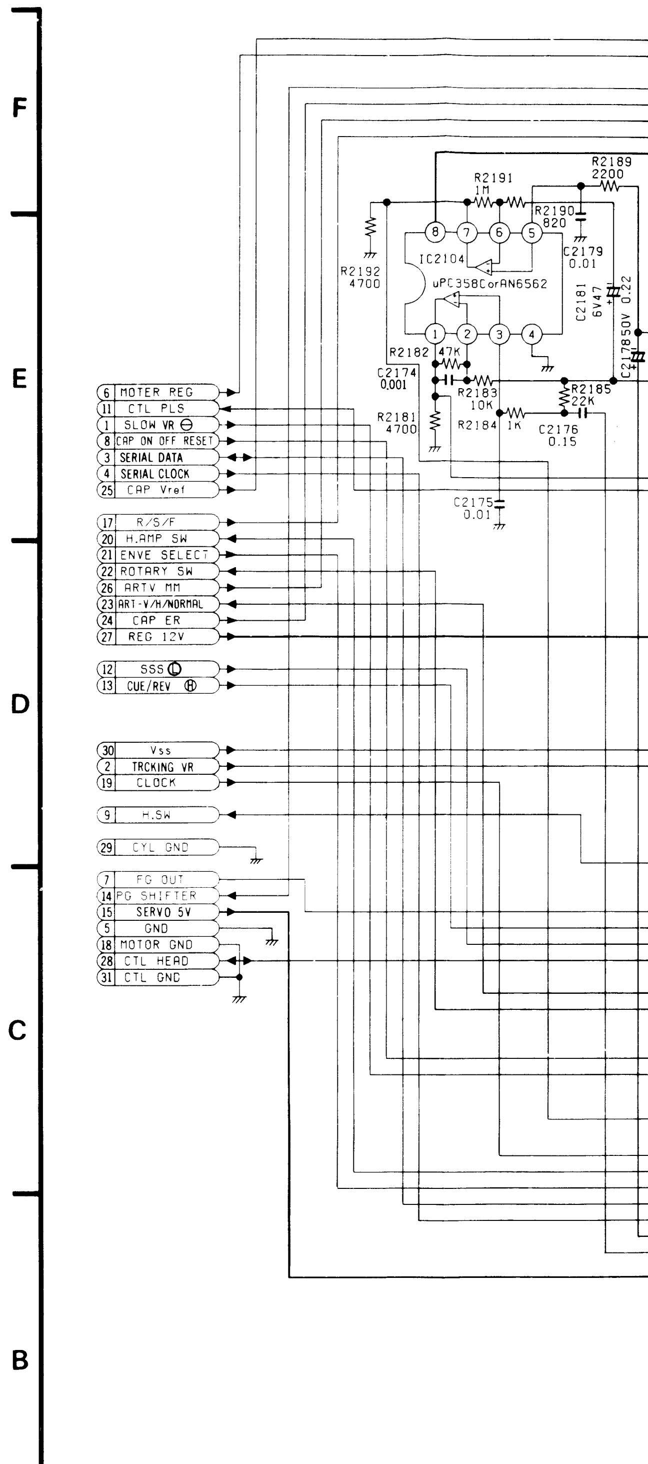
7. SERVO SCHEMATIC DIAGRAM (NV-G45A/EA)


TO POWER
REG 6V
REG 12V
GND
REG 5V
MOTOR GND
SERVO 5V
C2026 0.033
Q2006 2SD1330 (VOLTAGE STABI)
R2056 470
C2027 6V47
D2014 MA165
TO LUMINANCE & CHROMINANCE
H.SW
CLOCK
ENVE SELECT
H.AMP.SW
ROTARY SW
ART.V/H/N
VSS
TP2002 REC
5Vp-p 25Hz
TP2002 PLAY
5Vp-p 25Hz
R2030 33K
Q2001 2SB709 (AMP)
Q2002 2SD601 (MIX)
R2037 10K
R2032 120K
R2033 68K
R2029 68K
R2031 47K
R2034 390
VR2011 100KB
SLOW TRK SP
R2010 22K
QR2002 UN2212 (X7 (H):ON)
TP2001
D2007 MA165
ART.V SP
VR2010 200KB
TO SYSTEM CONTROL
STOP/FF/REW
CRNT EMPHA
CTL DUTY
MOTOR REG 10V
TRACKING VR
SLOW TR VR ⊕
SLOW TR VR ⊖
X7
CTL PLS
SERVO SSS
CUE/REV
H.SW
CAP ON/OFF/RST
SERIAL CLOCK
SERIAL DATA
R2047 150K
R2048 150K
R2049 27K
Q2003 2SD601
Q2004 2SD601 (AMP)
R2051 2200
R2046 15K
C2024 0.0018
R2050 1K
C2022 16V10
(CTL PULSE OSC)
VR2001 50KB
PG SHIFTER
R2009 4700
VR2013 2KB
R2008 6800
SLOW FREERUN
TP2009
R2038 100K
TO AUDIO
CTL HEAD
CTL GND
TO P3001-11
R2011 560
TP2025
C2023 50V 0.47
R2007 4700
TP2026
QR2007 UN2213
(POWER ON :RESET)
TP2015
C2019 0.1
TRK FIX
VR2002 100KB
SLOW TR VR
TRACKING VR
SERIAL DATA
SERIAL CLOCK
GND
MOTOR REG 10V
CAP ON/OFF RST
H.SW
FG OUT
CYL GND
CTL PLS
SSS
CUE/REV
PG SHIFTER
SERVO 5V
R/S/F
MOTOR GND
CLOCK
ENVE SELECT
H.AMP.SW
ROTARY SW
ART.V/H/N
CAP ER
CAP VREF
VSS
REG 12V
ART.V MM
CTL HEAD
CTL GND
SUB MAIN C.B.A. (VEP02301B/F)
A
B
C
D
E
1
2
3
4
5
6

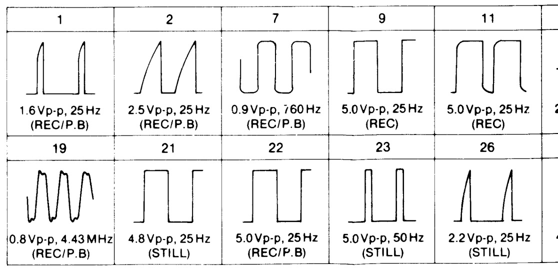
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

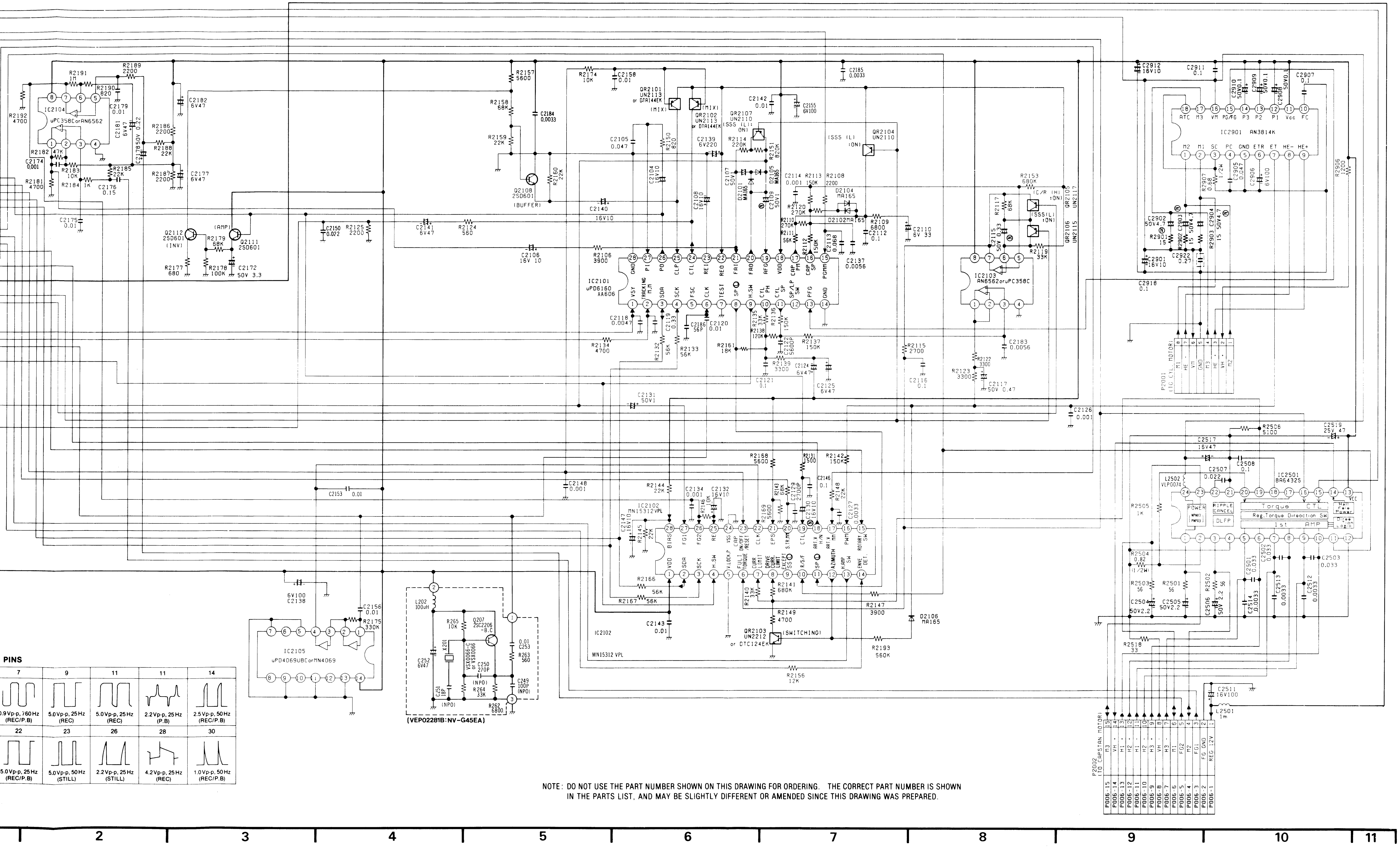
8. SUB MAIN SCHEMATIC DIAGRAM


F
E
D
C
B
IC2104 uPC358C or AN6562
R2191 1M
R2189 2200
R2190 820
R2192 4700
C2179 0.01
C2181 6V47
R2182 47K
C2174 0.001
R2183 10K
R2185 22K
R2181 4700
R2184 1K
C2176 0.15
C2175 0.01
MOTER REG
CTL PLS
SLOW VR ⊖
CAP ON OFF RESET
SERIAL DATA
SERIAL CLOCK
CAP Vref
R/S/F
H.AMP SW
ENVE SELECT
ROTARY SW
ARTV MM
ART-V/H/NORMAL
CAP ER
REG 12V
SSS
CUE/REV
Vss
TRCKING VR
CLOCK
H.Sw
CYL GND
FG OUT
PG SHIFTER
SERVO 5V
GND
MOTOR GND
CTL HEAD
CTL GND

WAVEFORM OF SUB MAIN PINS



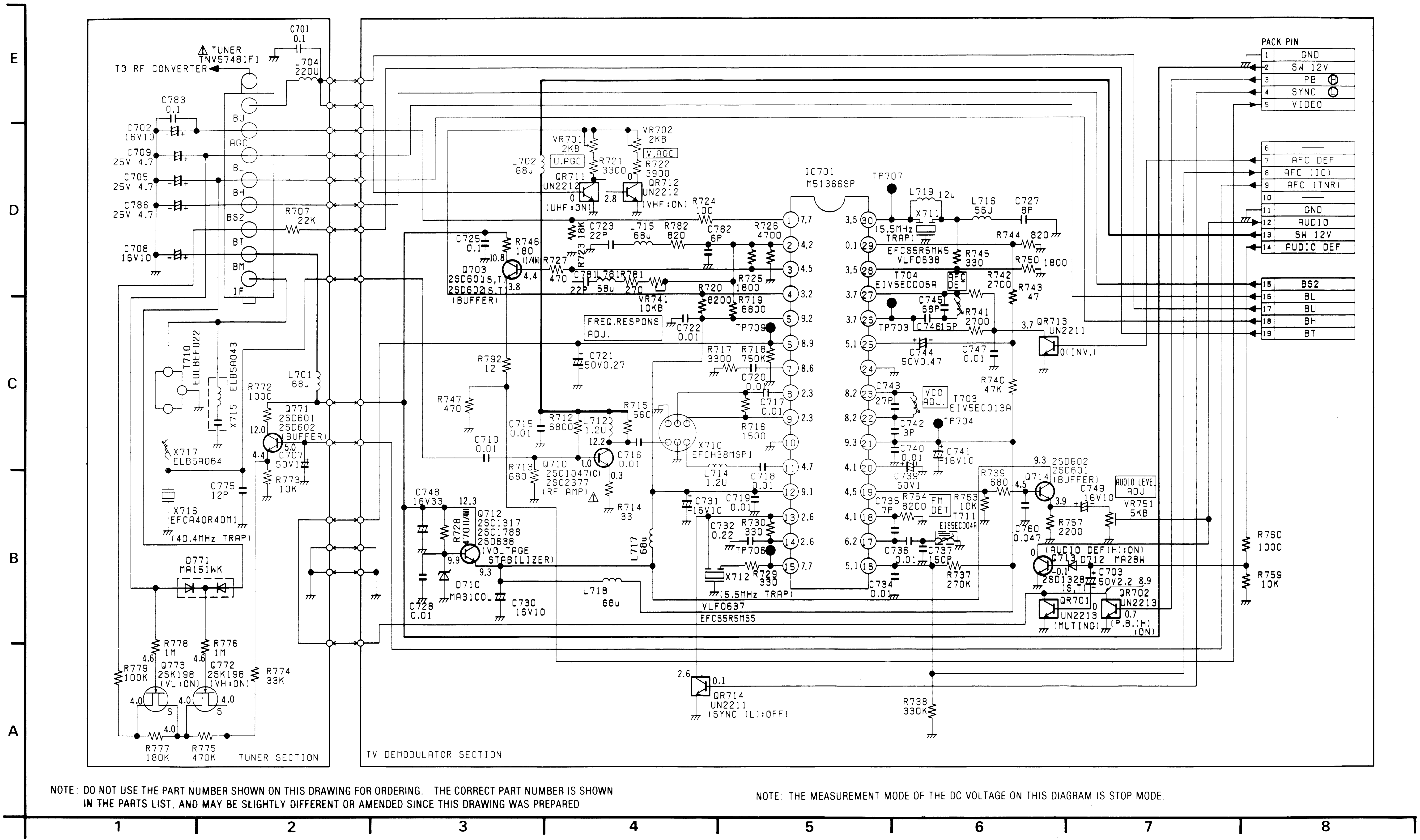
EMATIC DIAGRAM (VEP02301B: NV-G45A), (VEP02301F: NV-G45EA)


IC2101 uPD6160 AA606
IC2102 MN15312VPL
IC2103 AN6562 or uPC358C
IC2104 uPC358C or AN6562
IC2105 uPD4069UBC or MN4069
IC2901 AN3814K
IC2501 BA6432S
Q2108 2SD601 (BUFFER)
Q2112 2SD601 (INV)
Q2111 2SD601 (AMP)
QR2101 UN2113 or DTA144EK (MIX)
QR2102 UN2113 or DTA144EK (MIX)
QR2107 UN2110 (SSS (L) : ON)
QR2104 UN2110 (SSS (L) : ON)
QR2105 UN2117 (C/R (H) : ON)
QR2106 UN2115 (SSS (L) : ON)
QR2103 UN2212 or DTC124EK (SWITCHING)
Q207 2SC2206-B,C
D2101 MA165
D2104 MA165
D2105 MA165
D2102 MA165
D2106 MA165
L202 100uH
L2502 VLP0074
L2501 1m
X201
VSX0066-C or VSX0066
(VEP02281B:NV-G45EA)
P2001 (TO CYL MOTOR)
P2002 (TO CAPSTAN MOTOR)
Torque CTL
Reg.Torque Direction SW
1st AMP
POWER
RIPPLE CANCEL
DLFP
Hall Power
P006-15 P006-14 P006-13 P006-12 P006-11 P006-10 P006-9 P006-8 P006-7 P006-6 P006-5 P006-4 P006-3 P006-2 P006-1
PINS
2
3
4
5
6
7
8
9
10
11

7	9	11	11	14
.9Vp-p, 760Hz (REC/P.B)	5.0Vp-p, 25Hz (REC)	5.0Vp-p, 25Hz (REC)	2.2Vp-p, 25Hz (P.B)	2.5Vp-p, 50Hz (REC/P.B)
22	**23**	**26**	**28**	**30**
5.0Vp-p, 25Hz (REC/P.B)	5.0Vp-p, 50Hz (STILL)	2.2Vp-p, 25Hz (STILL)	4.2Vp-p, 25Hz (REC)	1.0Vp-p, 25Hz (REC/P.B)

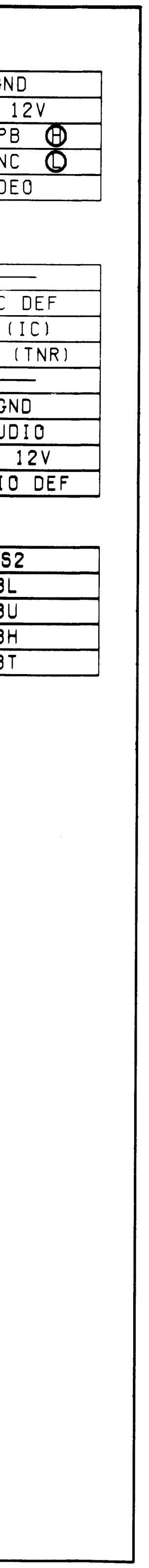
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

9. TUNER & TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-G40EG)

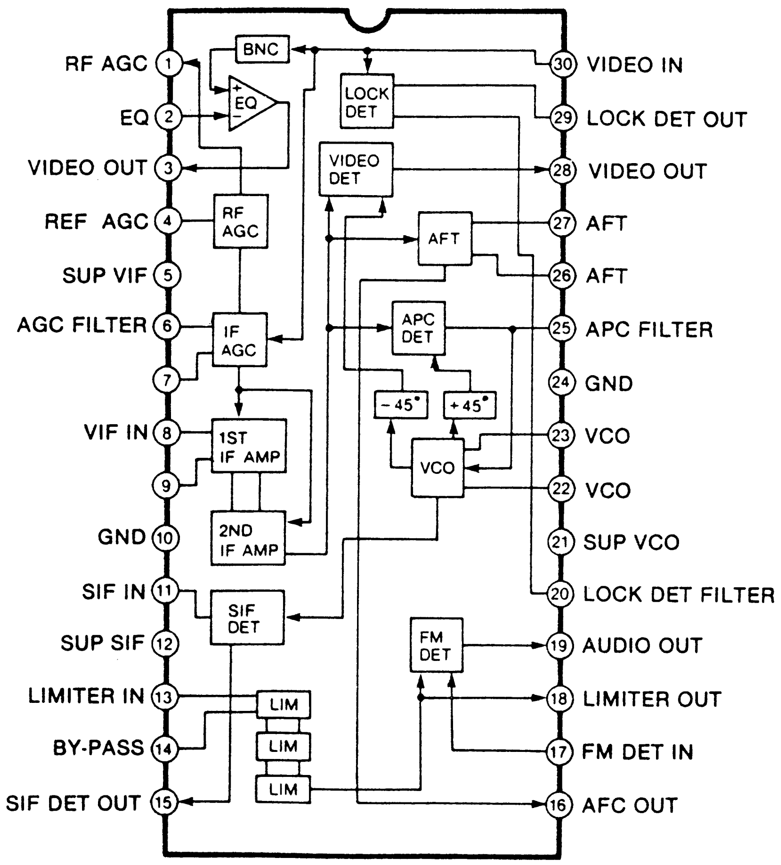

E
D
C
B
A
1
2
3
4
5
6
7
8
TUNER
TNV57481F1
TO RF CONVERTER
C701 0.1
L704 220U
C783 0.1
C702 16V10
C709 25V 4.7
C705 25V 4.7
C786 25V 4.7
C708 16V10
BU
AGC
BL
BH
BS2
BT
BM
IF
R707 22K
T710 EULBEF022
X715 ELB5A043
X717 ELB5A064
X716 EFCA40R40M1
(40.4MHz TRAP)
C775 12P
L701 68u
R772 1000
Q771 2SD601 2SD602 (BUFFER)
C707 50V1
R773 10K
D771 MA151WK
R778 1M
R776 1M
R779 100K
Q773 2SK198 (VL:ON)
Q772 2SK198 (VH:ON)
R774 33K
R777 180K
R775 470K
TUNER SECTION
TV DEMODULATOR SECTION
VR701 2KB
U.AGC
VR702 2KB
V.AGC
R721 3300
R722 3900
L702 68u
QR711 UN2212
QR712 UN2212
(UHF:ON)
(VHF:ON)
R724 100
C725 0.1
R746 180 (1/4W)
Q703 2SD601(S,T) 2SD602(S,T) (BUFFER)
R727 470
R723 18K
C723 22P
L715 68u
R782 820
C782 6P
R726 4700
C781 22P
L781 68u
R781 270
R725 1800
R720 8200
R719 6800
VR741 10KB
FREQ.RESPONS ADJ.
C722 0.01
TP709
C721 50V0.27
R717 3300
R718 750K
C720 0.01
C717 0.01
R792 12
R747 470
C715 0.01
R712 6800
L712 1.2U
R715 560
R716 1500
C710 0.01
R713 680
Q710 2SC1047(C) 2SC2377 (RF AMP)
C716 0.01
R714 33
X710 EFCH38MSP1
L714 1.2U
C718 0.01
C748 16V33
Q712 2SC1317 2SC1788 2SD638 (VOLTAGE STABILIZER)
R728 470(1/4W)
D710 MA3100L
C728 0.01
C730 16V10
L718 68u
L717 68u
C731 16V10
C719 0.01
C732 0.22
R730 330
TP706
R729 330
X712
(5.5MHz TRAP)
VLF0637
EFCS5R5MS5
IC701 M51366SP
TP707
L719 12u
X711
L716 56U
C727 8P
(5.5MHz TRAP)
EFCS5R5MW5
VLF0638
R745 330
R744 820
R750 1800
T704 EIV5EC006A
AFC DET
R742 2700
R743 47
C745 68P
R741 2700
TP703
C746 15P
C744 50V0.47
C747 0.01
QR713 UN2211
0(INV.)
R740 47K
C743 27P
VCO ADJ.
T703 EIV5EC013A
C742 3P
TP704
C740 0.01
C741 16V10
C739 50V1
R739 680
Q714 2SD602 2SD601 (BUFFER)
C749 16V10
AUDIO LEVEL ADJ
VR751 5KB
C735 7P
R764 8200
FM DET
R763 10K
T711 EI5SEC004A
R757 2200
C760 0.047
C736 0.01
C737 150P
R737 270K
C734 0.01
(AUDIO DEF(H):ON)
Q713 2SD1328(S,T)
D712 MA28W
C703 50V2.2
QR701 UN2213 (MUTING)
QR702 UN2213 (P.B.(H):ON)
R760 1000
R759 10K
QR714 UN2211 (SYNC (L):OFF)
R738 330K
PACK PIN
1 GND
2 SW 12V
3 PB Ⓗ
4 SYNC Ⓛ
5 VIDEO
6 —
7 AFC DEF
8 AFC (IC)
9 AFC (TNR)
10 —
11 GND
12 AUDIO
13 SW 12V
14 AUDIO DEF
15 BS2
16 BL
17 BU
18 BH
19 BT

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.


GND
12V
PB Ⓗ
NC Ⓛ
DEO
DEF
(IC)
(TNR)
GND
DIO
12V
IO DEF
S2
BL
BU
BH
BT

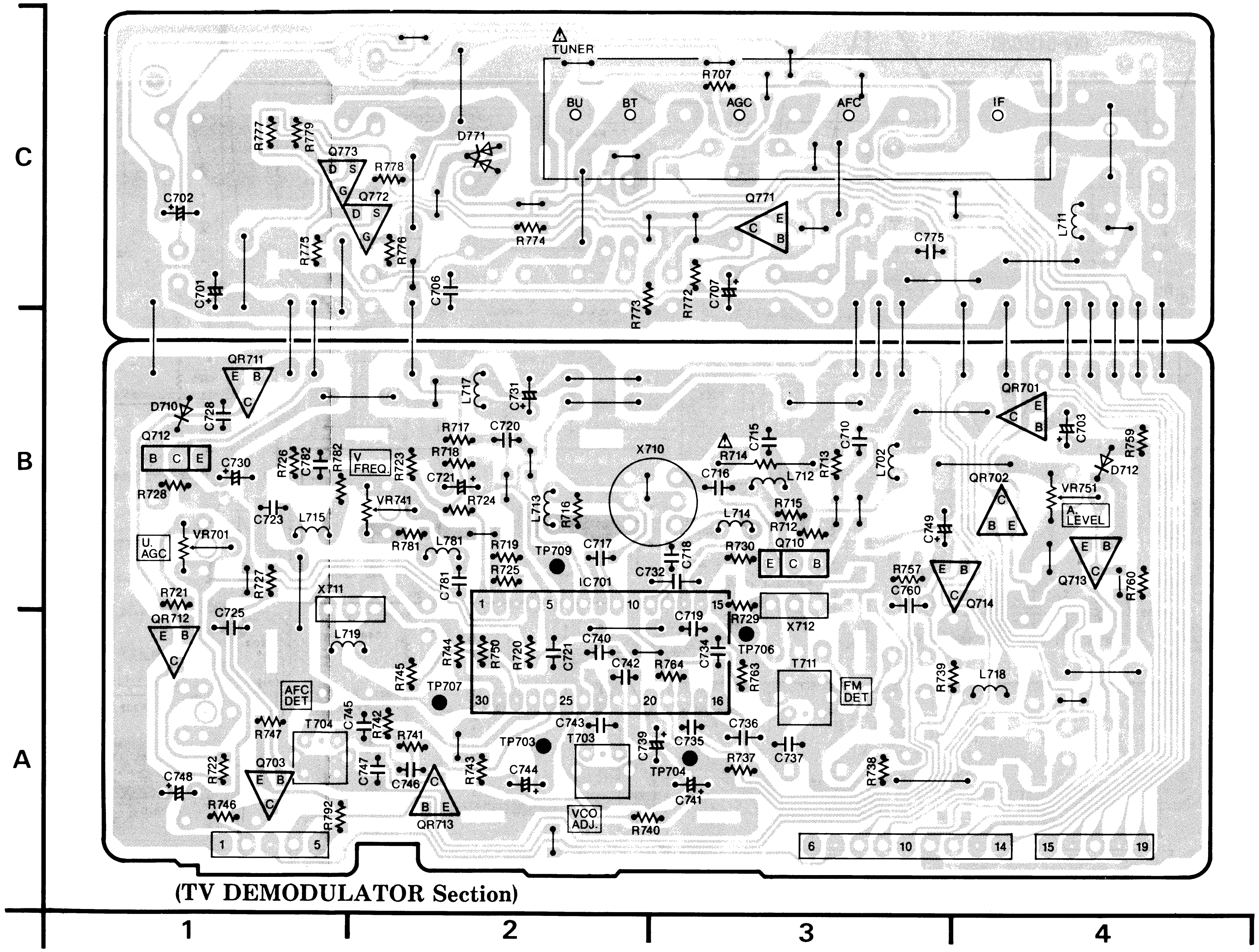
IC BLOCK
IC701 (M51366SP)


RF AGC ①
EQ ②
VIDEO OUT ③
REF AGC ④
SUP VIF ⑤
AGC FILTER ⑥
⑦
VIF IN ⑧
⑨
GND ⑩
SIF IN ⑪
SUP SIF ⑫
LIMITER IN ⑬
BY-PASS ⑭
SIF DET OUT ⑮
㉚ VIDEO IN
㉙ LOCK DET OUT
㉘ VIDEO OUT
㉗ AFT
㉖ AFT
㉕ APC FILTER
㉔ GND
㉓ VCO
㉒ VCO
㉑ SUP VCO
⑳ LOCK DET FILTER
⑲ AUDIO OUT
⑱ LIMITER OUT
⑰ FM DET IN
⑯ AFC OUT
BNC
EQ
LOCK DET
VIDEO DET
RF AGC
AFT
APC DET
IF AGC
-45°
+45°
1ST IF AMP
VCO
2ND IF AMP
SIF DET
FM DET
LIM
LIM
LIM

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN ⚠ HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SPECIFIED PARTS.

10. TUNER & TV DEMODULATOR PACK C.B.A. (VEP07444N: NV-G40EG)

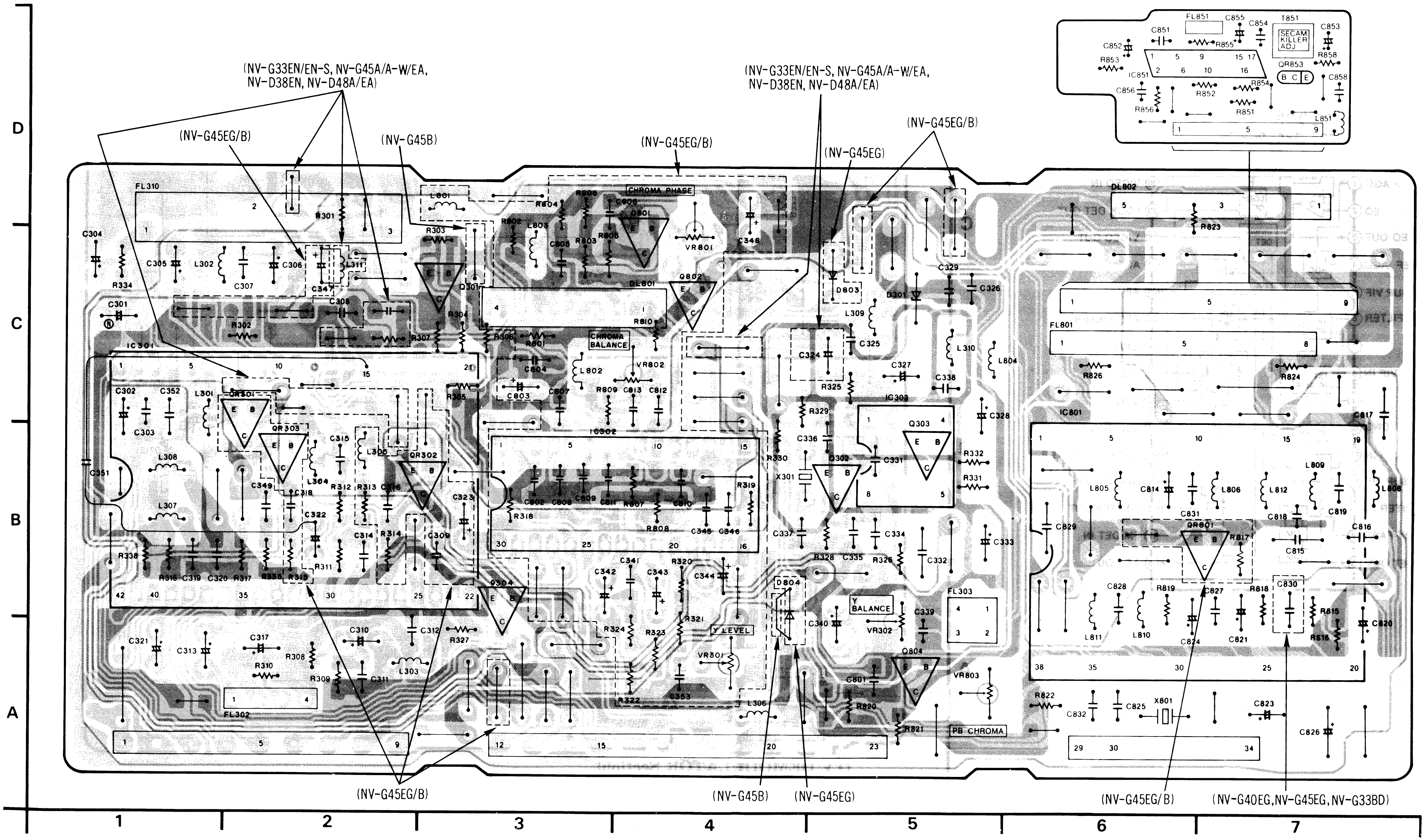
(TUNER Section)


C
B
A
1
2
3
4
⚠ TUNER
R707
BU
BT
AGC
AFC
IF
R777
R779
Q773
D S G
R778
Q772
D S G
D771
C702
R775
R776
R774
Q771
C E B
L711
C775
C701
C706
R773
R772
C707
QR711
E B C
L717
C731
QR701
D710
C728
C703
Q712
B C E
R717
C720
R718
R759
C721
X710
⚠ R714
C715
C710
C716
L712
R713
L702
QR702
D712
R726
C782
R782
V FREQ.
R723
C730
R728
R724
L713
R716
R715
VR751
C723
L715
VR741
L714
R712
C749
B E
A LEVEL
U. AGC
VR701
R781
L781
R719
TP709
C717
C718
R730
Q710
E C B
R757
E B
Q713
R727
R725
IC701
C732
C760
Q714
R760
R721
X711
C781
1
5
10
15
C719
R729
X712
QR712
E B
C725
L719
C740
TP706
R744
R750
R720
C721
C742
R764
C734
T711
R739
L718
R745
TP707
AFC DET
R763
FM DET
30
25
20
16
R747
T704
C745
R742
C743
C736
R741
T703
TP703
C739
C735
C748
R722
Q703
E B
C747
C746
R743
C744
TP704
R737
C737
R738
C741
R746
R792
QR713
B E
VCO ADJ.
R740
1
5
6
10
14
15
19

(TV DEMODULATOR Section)

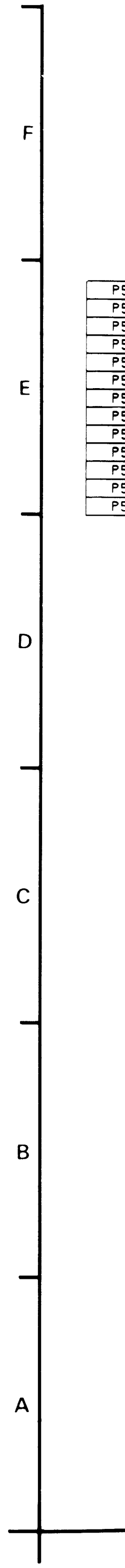
11. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03543C: NV-G33BD, NV-G40EG) (VEP03543D: NV-G33EN/EN-S, NV-G45A/A-W/EA, NV-D38EN, NV-D48A/EA) (VEP03543F: NV-G45B) (VEP03543E: NV-G45EG)

SECAM PACK C.B.A. (VEP03452B: NV-G33BD, NV-G40EG, NV-G45EG)



FL851
C851
C852
C853
C854
C855
C856
C858
T851
SECAM KILLER ADJ
R851
R852
R853
R854
R855
R856
R858
IC851
QR853
L851
(NV-G33EN/EN-S, NV-G45A/A-W/EA, NV-D38EN, NV-D48A/EA)
(NV-G45EG/B)
(NV-G45B)
(NV-G45EG/B)
(NV-G33EN/EN-S, NV-G45A/A-W/EA, NV-D38EN, NV-D48A/EA)
(NV-G45EG)
(NV-G45EG/B)
FL310
CHROMA PHASE
CHROMA BALANCE
VR801
VR802
DL801
DL802
FL801
IC301
IC302
IC303
IC801
Q301
Q302
Q303
Q304
Q801
Q802
Q804
QR301
QR302
QR303
QR801
X301
X801
D301
D803
D804
FL302
FL303
Y BALANCE
VR302
Y LEVEL
VR301
VR803
PB CHROMA
(NV-G45EG/B)
(NV-G45B)
(NV-G45EG)
(NV-G45EG/B)
(NV-G40EG, NV-G45EG, NV-G33BD)
A
B
C
D
1
2
3
4
5
6
7

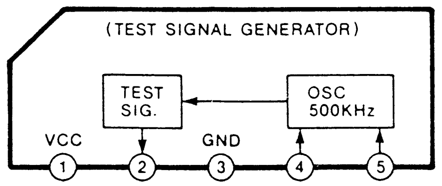
12. LUM



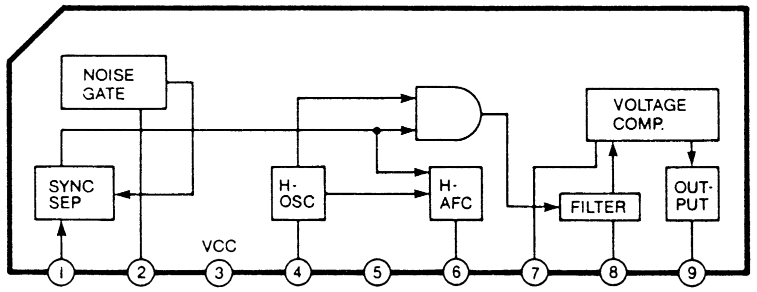
12. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM

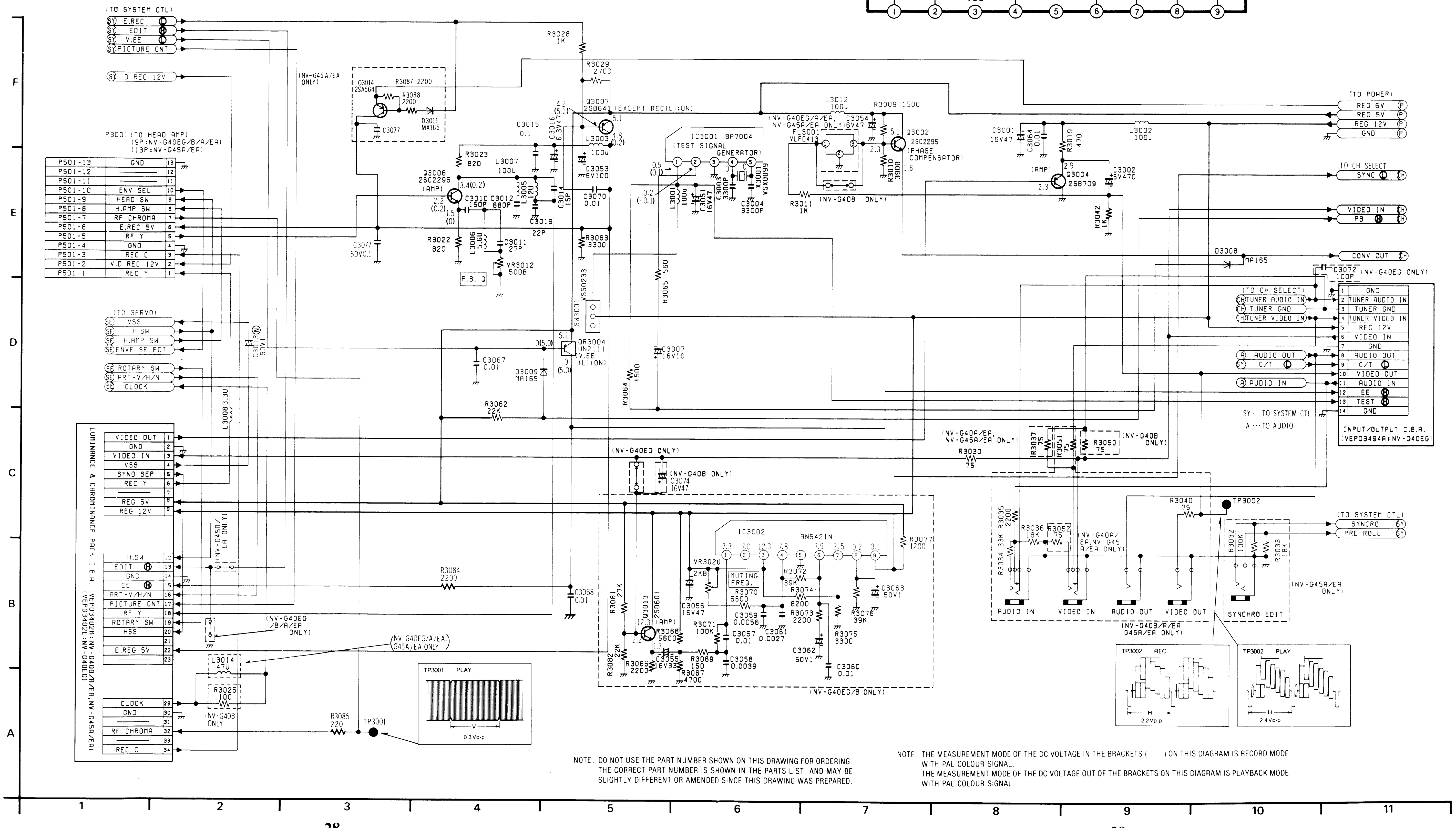
IC BLOCK

IC3001 (BA7004)


(TEST SIGNAL GENERATOR)
TEST SIG.
OSC 500KHz
VCC
GND
1
2
3
4
5

IC3002 (AN5421N)

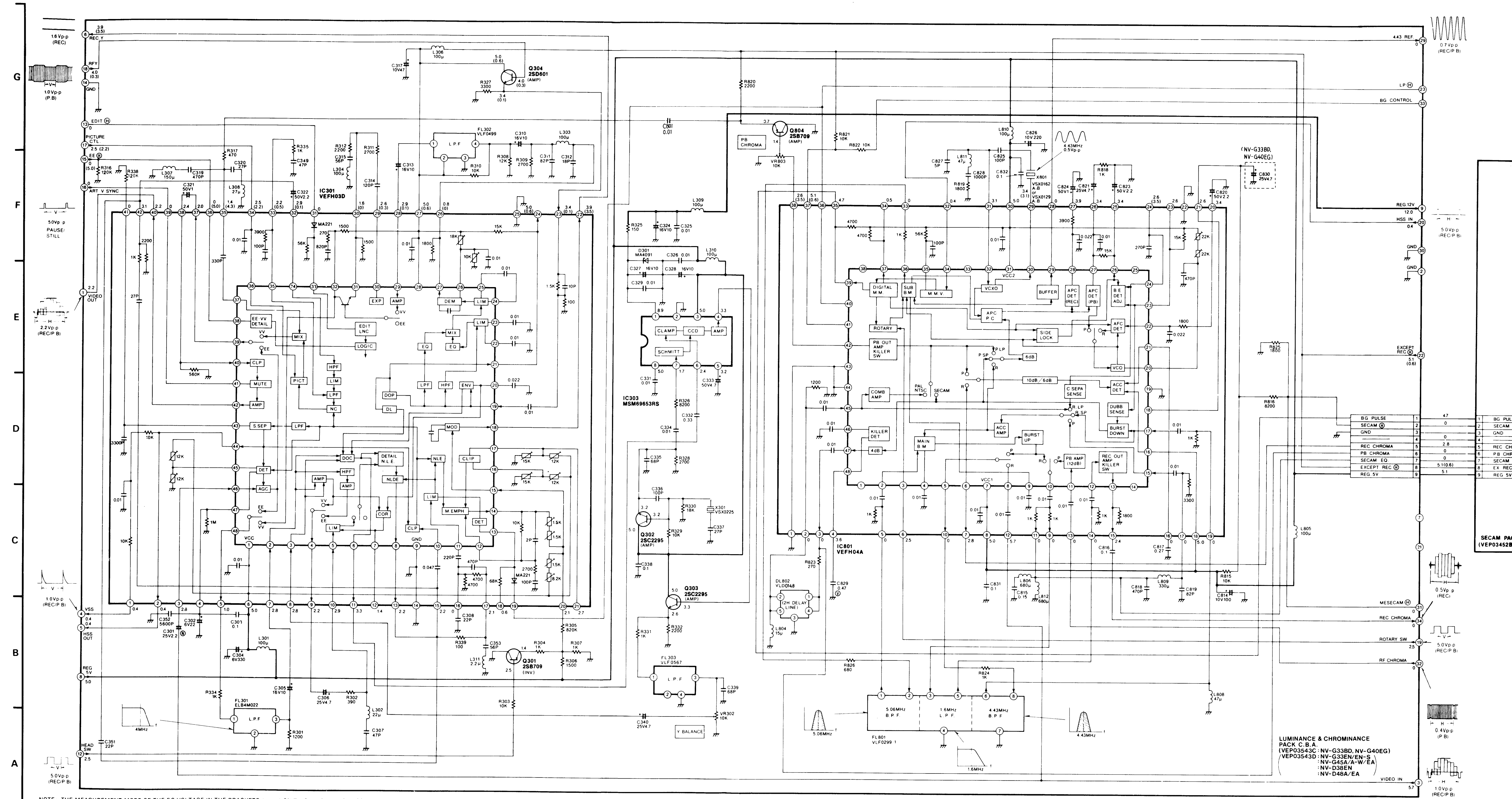

NOISE GATE
SYNC SEP
H-OSC
H-AFC
VOLTAGE COMP.
FILTER
OUT-PUT
VCC
1
2
3
4
5
6
7
8
9


(TO SYSTEM CTL)
E.REC
EDIT
V.EE
PICTURE CNT
D REC 12V
P3001 (TO HEAD AMP) (9P:NV-G40EG/B/A/EA) (13P:NV-G45A/EA)
P501-13 GND
P501-12
P501-11
P501-10 ENV SEL
P501-9 HEAD SW
P501-8 H.AMP SW
P501-7 RF CHROMA
P501-6 E.REC 5V
P501-5 RF Y
P501-4 GND
P501-3 REC C
P501-2 V.D REC 12V
P501-1 REC Y
(TO SERVO)
VSS
H.SW
H.AMP SW
ENVE SELECT
ROTARY SW
ART-V/H/N
CLOCK
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03402M:NV-G40B/A/EA,NV-G45A/EA) (VEP03402L:NV-G40EG)
VIDEO OUT
GND
VIDEO IN
VSS
SYNC SEP
REC Y
REG 5V
REG 12V
H.SW
EDIT
GND
EE
ART-V/H/N
PICTURE CNT
RF Y
ROTARY SW
HSS
E.REG 5V
CLOCK
GND
RF CHROMA
REC C
(NV-G45A/EA ONLY)
Q3014 2SA564
R3087 2200
R3088 2200
D3011 MA165
C3077
Q3006 2SC2295 (AMP)
R3023 820
R3022 820
L3007 100U
C3010 150P
C3012 680P
L3006 5.6U
C3011 27P
VR3012 500B
P.B. Q
C3077 50V0.1
C3015 0.1
C3016 6.3V47
L3005 12U
C3014 15P
C3019 22P
R3028 1K
R3029 2700
Q3007 2SB642 (EXCEPT REC(L):ON)
L3003 100U
C3053 6V100
C3070 0.01
R3063 3300
VSS0233
SW3001
QR3004 UN2111 V.EE (L):ON)
C3067 0.01
D3009 MA165
R3062 22K
R3064 1500
L3008 3.3U
C3013 50V1
IC3001 BA7004 (TEST SIGNAL GENERATOR)
L3001 100U
C3051 16V47
C3003 330P
X3001 VSX0099
C3004 3300P
R3065 560
C3007 16V10
L3012 100U
R3009 1500
(NV-G40EG/A/EA, NV-G45A/EA ONLY)
C3054 16V47
FL3001 VLF0413
Q3002 2SC2295 (PHASE COMPENSATOR)
R3010 3900
R3011 1K
(NV-G40B ONLY)
C3001 16V47
C3064 0.01
R3019 470
L3002 100U
Q3004 2SB709 (AMP)
C3002 16V470
R3042 1K
(TO POWER)
REG 6V
REG 5V
REG 12V
GND
TO CH SELECT
SYNC
VIDEO IN
PB
CONV OUT
D3008 MA165
C3072 100P (NV-G40EG ONLY)
(TO CH SELECT)
TUNER AUDIO IN
TUNER GND
TUNER VIDEO IN
AUDIO OUT
C/T
AUDIO IN
1 GND
2 TUNER AUDIO IN
3 TUNER GND
4 TUNER VIDEO IN
5 REG 12V
6 VIDEO IN
7 GND
8 AUDIO OUT
9 C/T
10 VIDEO OUT
11 AUDIO IN
12 EE
13 TEST
14 GND
SY···TO SYSTEM CTL
A···TO AUDIO
INPUT/OUTPUT C.B.A. (VEP03494A:NV-G40EG)
(NV-G40A/EA, NV-G45A/EA ONLY)
R3030 75
R3037 75
R3051 75
R3050 75
(NV-G40B ONLY)
(NV-G40EG ONLY)
C3074 16V47
(NV-G40B ONLY)
IC3002 AN5421N
VR3020 2KB
MUTING FREQ.
R3070 5600
R3072 39K
R3074 8200
R3073 2200
R3076 39K
R3075 3300
R3077 1200
C3063 50V1
C3056 16V47
C3059 0.0056
C3061 0.0027
C3057 0.01
C3062 50V1
C3060 0.01
C3058 0.0039
R3071 100K
R3069 150
R3067 4700
R3068 5600
R3066 2200
Q3013 2SD601 (AMP)
C3055 6V33
R3081 27K
R3082 22K
(NV-G40EG/B ONLY)
R3084 2200
C3068 0.01
(NV-G40EG/B/A/EA ONLY)
(NV-G40EG/A/EA) G45A/EA ONLY)
L3014 47U
R3025 100
NV-G40B ONLY
R3085 220
TP3001
TP3001 PLAY
0.3Vp-p
R3035 2200
R3034 33K
R3036 18K
R3052 75
(NV-G40A/EA,NV-G45A/EA ONLY)
AUDIO IN
VIDEO IN
AUDIO OUT
VIDEO OUT
(NV-G40B/A/EA G45A/EA ONLY)
R3040 75
TP3002
R3032 100K
R3033 18K
(TO SYSTEM CTL)
SYNCRO
PRE ROLL
SYNCHRO EDIT
(NV-G45A/EA ONLY)
TP3002 REC
TP3002 PLAY
2.2Vp-p
2.4Vp-p
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
10
11

NOTE DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

13. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM (VEP03543C: NV-G33BD, NV-G40EG), (VEP03543D: NV-G33EN/EN-S, NV-G45A/A-W/EA, NV-D38EN, NV-D48


G
F
E
D
C
B
A
1.6Vp-p (REC)
REC Y
RFY
GND
1.0Vp-p (P.B)
EDIT Ⓗ
PICTURE CTL
EE Ⓗ
ART. V. SYNC
5.0Vp-p PAUSE/STILL
VIDEO OUT
2.2Vp-p (REC/P.B)
1.0Vp-p (REC/P.B)
VSS
HSS OUT
REG 5V
HEAD SW
5.0Vp-p (REC/P.B)
4MHz
IC301 VEFH03D
Q304 2SD601
FL302 VLF0499
L P F
EE VV DETAIL
CLP
MUTE
AMP
S.SEP
DET
AGC
MIX
PICT
HPF
LIM
LPF
NC
EXP
DEM
EDIT LNC
LOGIC
EQ
DOP
DL
MOD
DOC
DETAIL N.L.E
NLE
NLDE
CLIP
COR
M.EMPH
VCC
GND
Q301 2SB709 (INV)
FL301 ELB4M022
C801 0.01
D301 MA4091
CLAMP
CCD
SCHMITT
IC303 MSM69653RS
Q302 2SC2295 (AMP)
Q303 2SC2295 (AMP)
FL303 VLF0567
Y BALANCE
PB CHROMA
Q804 2SB709 (AMP)
VR803 10K
4.43MHz 0.5Vp-p
X801 VSX0162 A-B or VSX0129 A-B
(NV-G33BD, NV-G40EG)
C830 25V4.7
DIGITAL M.M.
SUB B.M
M.M.V.
VCXO
BUFFER
APC DET (REC)
APC DET (PB)
B.E DET ADJ
APC P.C
ROTARY
SIDE LOCK
AFC DET
PB OUT AMP KILLER SW
VCO
COMB AMP
PAL NTSC
SECAM
10dB/6dB
C SEPA SENSE
ACC DET
DUBB SENSE
ACC AMP
BURST UP
BURST DOWN
KILLER DET
MAIN B.M
4dB
6dB
PB AMP (12dB)
REC OUT AMP KILLER SW
VCC1
VCC2
IC801 VEFH04A
DL802 VLD0148
(2H DELAY LINE)
FL801 VLF0299-1
5.06MHz B.P.F.
1.6MHz L.P.F.
4.43MHz B.P.F.
5.06MHz
4.43MHz
1.6MHz
4.43 REF
0.7Vp-p (REC/P.B)
LP Ⓗ
BG CONTROL
REG 12V
HSS IN
5.0Vp-p (REC/P.B)
GND
EXCEPT REC Ⓗ
BG PULSE
SECAM Ⓗ
REC CHROMA
PB CHROMA
SECAM EQ
EXCEPT REC Ⓗ
REG 5V
SECAM PA (VEP03452B
0.5Vp-p (REC)
MESECAM Ⓗ
ROTARY SW
5.0Vp-p (REC/P.B)
RF CHROMA
0.4Vp-p (P.B)
VIDEO IN
1.0Vp-p (REC/P.B)
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03543C : NV-G33BD, NV-G40EG)
(VEP03543D : NV-G33EN/EN-S
: NV-G45A/A-W/EA
: NV-D38EN
: NV-D48A/EA

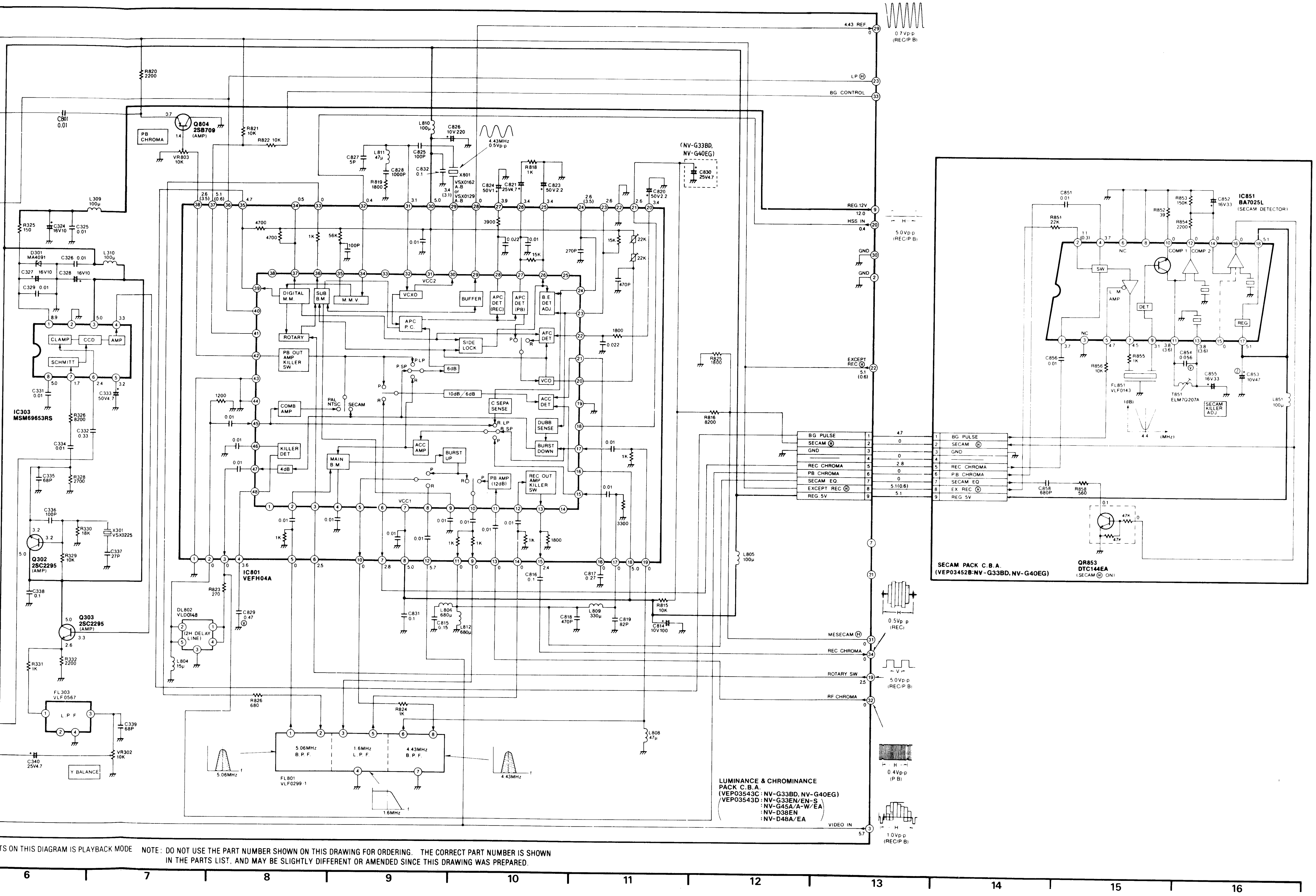
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

1 2 3 4 5 6 7 8 9 10 11 12 13

EP03543C: NV-G33BD, NV-G40EG), (VEP03543D: NV-G33EN/EN-S, NV-G45A/A-W/EA, NV-D38EN, NV-D48A/EA)


4.43 REF
LP Ⓗ
BG CONTROL
REG 12V
HSS IN
GND
EXCEPT REC Ⓗ
MESECAM Ⓗ
REC CHROMA
ROTARY SW
RF CHROMA
VIDEO IN
0.7Vp-p (REC/P.B)
5.0Vp-p (REC/P.B)
0.5Vp-p (REC)
5.0Vp-p (REC/P.B)
0.4Vp-p (P.B)
1.0Vp-p (REC/P.B)
Q804 2SB709 (AMP)
PB CHROMA
VR803 10K
IC303 MSM69653RS
CLAMP
CCD
AMP
SCHMITT
Q302 2SC2295 (AMP)
Q303 2SC2295 (AMP)
X301 VSX0225
FL303 VLF0567
L.P.F
Y BALANCE
VR302 10K
IC801 VEFH04A
DIGITAL M.M
SUB B.M
M.M.V
VCXO
BUFFER
APC DET (REC)
APC DET (PB)
B.E DET ADJ
APC P.C.
SIDE LOCK
AFC DET
ROTARY
PB OUT AMP KILLER SW
COMB AMP
KILLER DET
4dB
6dB
10dB/6dB
VCO
ACC DET
C.SEPA SENSE
DUBB SENSE
ACC AMP
BURST UP
BURST DOWN
MAIN B.M.
PB AMP (12dB)
REC OUT AMP KILLER SW
PAL NTSC
SECAM
X801 VSX0162 A.B or VSX0129 A.B
4.43MHz 0.5Vp-p
(NV-G33BD, NV-G40EG)
DL802 VLD0148
(2H DELAY LINE)
FL801 VLF0299-1
5.06MHz B.P.F.
1.6MHz L.P.F
4.43MHz B.P.F.
BG PULSE
SECAM Ⓗ
GND
REC CHROMA
PB CHROMA
SECAM EQ
EXCEPT REC Ⓗ
REG 5V
EX REC Ⓗ
IC851 BA7025L (SECAM DETECTOR)
SW
L.M AMP
DET
COMP 1
COMP 2
REG
FL851 VLF0143
T851 ELM7Q207A
SECAM KILLER ADJ
SECAM PACK C.B.A. (VEP03452B:NV-G33BD, NV-G40EG)
QR853 DTC144EA (SECAM Ⓗ ON)
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03543C : NV-G33BD, NV-G40EG)
(VEP03543D : NV-G33EN/EN-S
: NV-G45A/A-W/EA
: NV-D38EN
: NV-D48A/EA)
6
7
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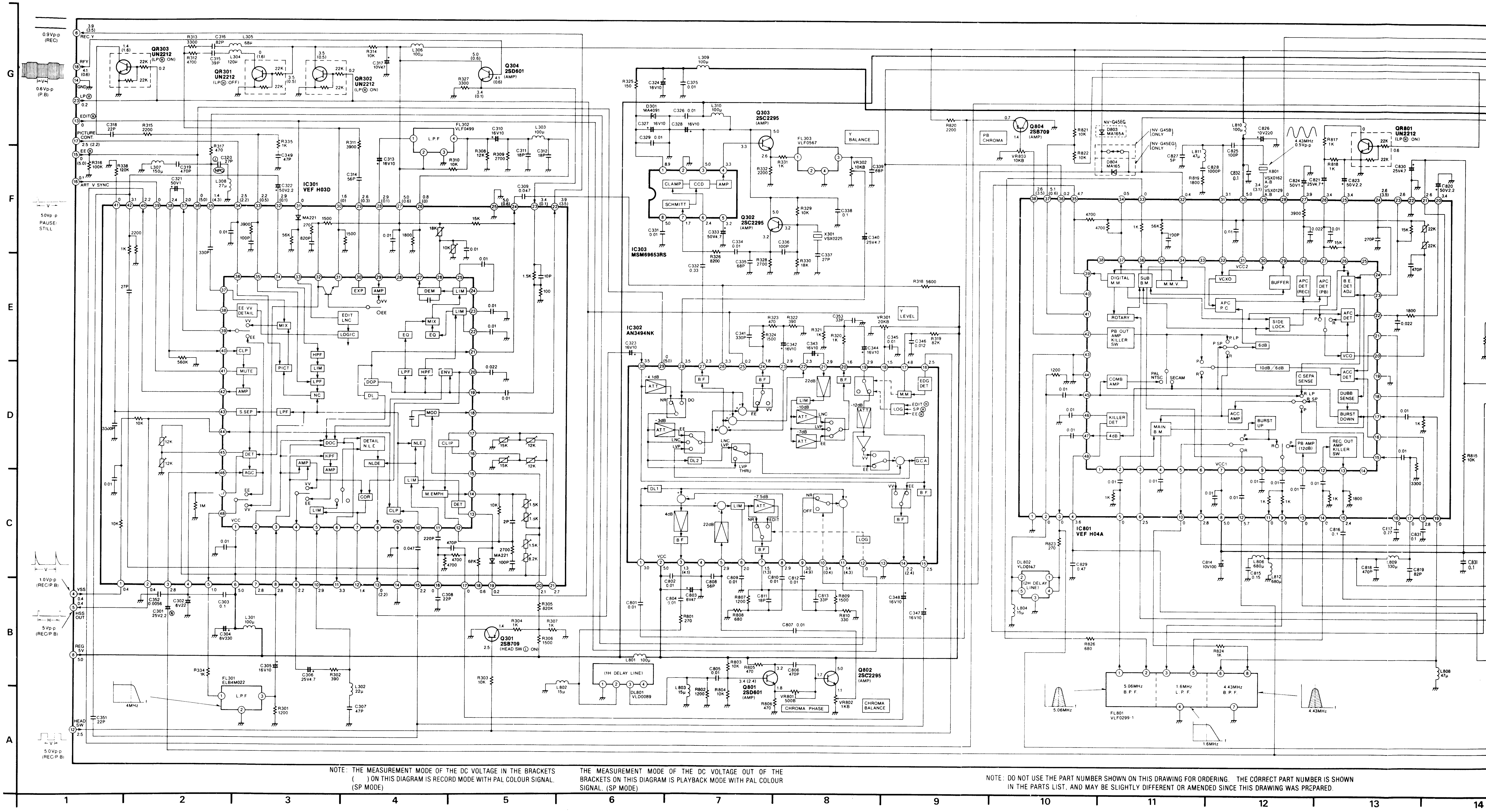
12
13
14
15
16

TS ON THIS DIAGRAM IS PLAYBACK MODE NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

14. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM (VEP03543E: NV-G45EG), (VEP03543F: NV-G45B)

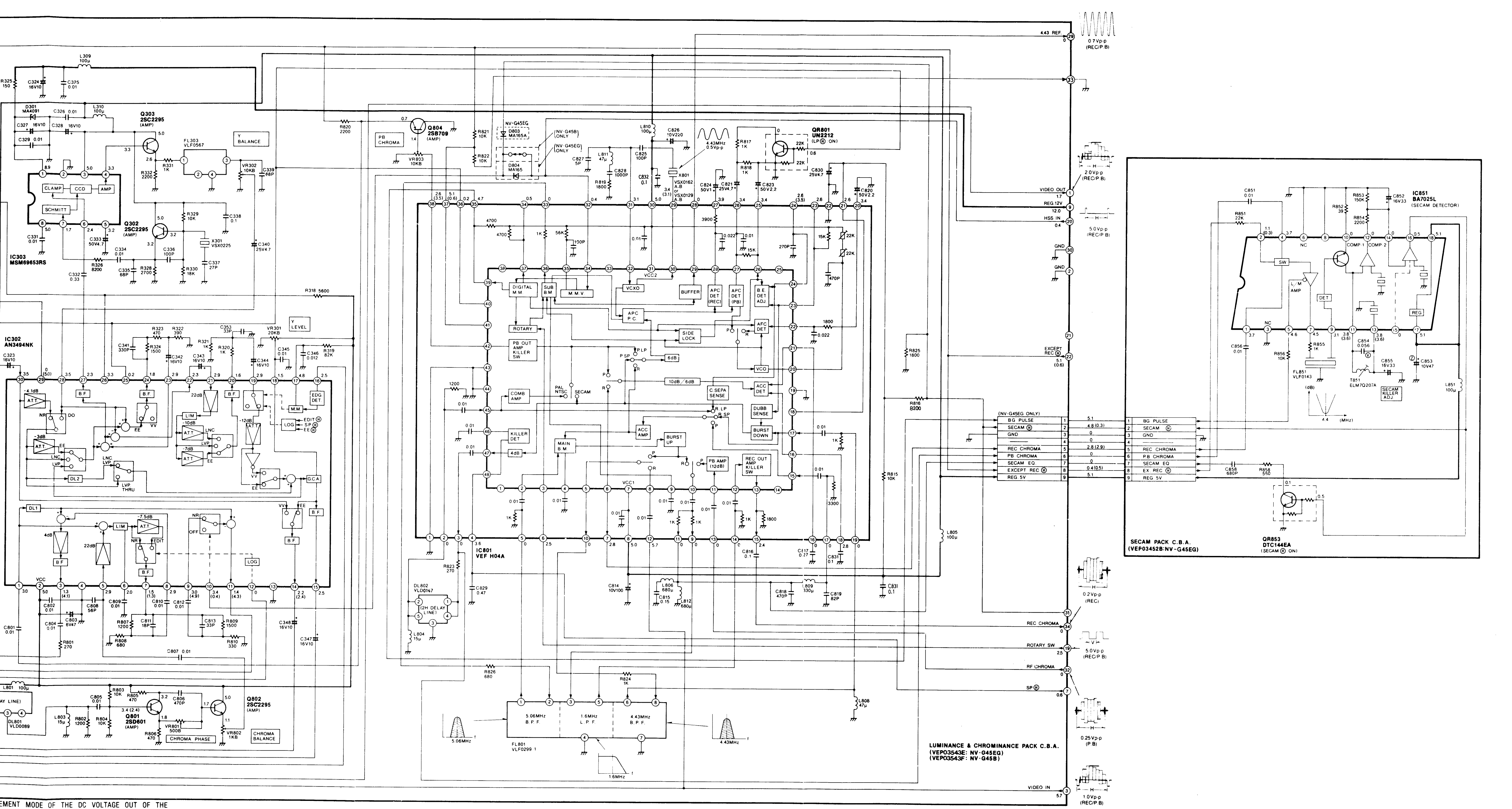

IC301
VEF H03D
IC302
AN3494NK
IC303
MSM69653RS
IC801
VEF H04A
QR303 UN2212 (LP Ⓡ ON)
QR301 UN2212 (LP Ⓡ OFF)
QR302 UN2212 (LP Ⓡ ON)
Q304 2SD601 (AMP)
Q303 2SC2295 (AMP)
Q302 2SC2295 (AMP)
Q301 2SB709 (HEAD SW ① ON)
Q801 2SD601 (AMP)
Q802 2SC2295 (AMP)
Q804 2SB709 (AMP)
QR801 UN2212 (LP Ⓢ ON)
FL301 ELB4M022
FL302 VLF0499
FL303 VLF0567
FL801 VLF0299-1
DL801 VLD0089
DL802 VLD0147
1H DELAY LINE
Y BALANCE
Y LEVEL
CHROMA PHASE
CHROMA BALANCE
PB CHROMA
REC Y
RFY
GND
LP Ⓡ
EDIT Ⓡ
PICTURE CONT.
EE Ⓡ
ART V SYNC
VSS
HSS OUT
REG 5V
HEAD SW
0.9Vp-p (REC)
0.6Vp-p (P.B)
5.0Vp-p PAUSE/STILL
1.0Vp-p (REC/P.B)
5Vp-p (REC/P.B)
5.0Vp-p (REC/P.B)
4MHz
5.06MHz
4.43MHz
1.6MHz
5.06MHz B.P.F.
1.6MHz L.P.F.
4.43MHz B.P.F.
NV-G45EG
(NV-G45B) ONLY
(NV-G45EG) ONLY
4.43MHz 0.5Vp-p
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
13
14

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

543E: NV-G45EG), (VEP03543F: NV-G45B)


IC303
MSM69653RS
CLAMP
CCD
AMP
SCHMITT
Q303
2SC2295
(AMP)
Q302
2SC2295
(AMP)
FL303
VLF0567
Y BALANCE
X301
VSX0225
IC302
AN3494NK
Y LEVEL
ATT
LIM
LNC
LVP
DL1
DL2
BF
LOG
GCA
EDG DET
MM
EDIT Ⓗ
SP Ⓗ
EE Ⓗ
Q804
2SB709
(AMP)
PB CHROMA
NV-G45EG
D803
MA165A
D804
MA165
(NV-G45B) ONLY
(NV-G45EG) ONLY
4.43MHz 0.5Vp-p
X801
VSX0162 A.B or VSX0129 A.B
QR801
UN2212
(LP Ⓗ ON)
IC801
VEF H04A
DIGITAL M.M
SUB B.M
M.M.V
VCXO
BUFFER
APC DET (REC)
APC DET (PB)
B.E DET ADJ
APC P.C
ROTARY
SIDE LOCK
AFC DET
PB OUT AMP KILLER SW
6dB
VCO
10dB/6dB
C.SEPA SENSE
ACC DET
COMB AMP
PAL NTSC SECAM
DUBB SENSE
KILLER DET
ACC AMP
BURST UP
BURST DOWN
MAIN B.M
4dB
PB AMP (12dB)
REC OUT AMP KILLER SW
VCC1
VCC2
DL802
VLD0147
(2H DELAY LINE)
FL801
VLF0299-1
5.06MHz B.P.F
1.6MHz L.P.F
4.43MHz B.P.F
5.06MHz
1.6MHz
4.43MHz
Q801
2SD801
(AMP)
Q802
2SC2295
(AMP)
CHROMA PHASE
CHROMA BALANCE
DL801
VLD0089
4.43 REF.
0.7Vp-p (REC/P.B)
2.0Vp-p (REC/P.B)
5.0Vp-p (REC/P.B)
VIDEO OUT
REG.12V
HSS IN
GND
EXCEPT REC Ⓗ
(NV-G45EG ONLY)
BG PULSE
SECAM Ⓗ
GND
REC CHROMA
PB CHROMA
SECAM EQ
EXCEPT REC Ⓗ
REG 5V
EX REC Ⓗ
IC851
BA7025L
(SECAM DETECTOR)
SW
L/M AMP
DET
COMP 1
COMP 2
REG
NC
SECAM KILLER ADJ
FL851
VLF0143
T851
ELM7Q207A
(dB)
4.4 (MHz)
QR853
DTC144EA
(SECAM Ⓗ ON)
SECAM PACK C.B.A.
(VEP03452B: NV-G45EG)
0.2Vp-p (REC)
REC CHROMA
ROTARY SW
5.0Vp-p (REC/P.B)
RF CHROMA
SP Ⓗ
0.25Vp-p (P.B)
VIDEO IN
1.0Vp-p (REC/P.B)
LUMINANCE & CHROMINANCE PACK C.B.A.
(VEP03543E: NV-G45EG)
(VEP03543F: NV-G45B)
7
8
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EMENT MODE OF THE DC VOLTAGE OUT OF THE
THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR
ODE)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

PARTS LIST

MODEL NO : NV-G40EG/B/A/EA, NV-G45A/EA

1. NV-G40EG/B/A/EA, NV-G45A/EA Mechanical Replacement Parts List

Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
**********		NV-G40EG/B			
		/A/EA			
		NV-G45A/EA			
1(1)		VHD0141	HEAD AMP SET SCREW	2	
2(1)		VMA6897	HEAD AMP MOUNT ANGLE (L)	1	
3(1)		VMA6898	HEAD AMP MOUNT ANGLE (R)	1	
4(1)		VEK3185	DEW SENSOR UNIT	1	NV-G40A/EA,NV-G45A/EA
5(1)		VXS0073	EARTH PLATE UNIT	1	
6(1)		VEG0726	CYLINDER UNIT	1	NV-G40EG/B/A/EA <!>
6(1)		VEG0724	CYLINDER UNIT	1	NV-G45A/EA <!>
7(1)		VEH0416	UPPER CYLINDER UNIT	1	NV-G40EG/B/A/EA
7(1)		VEH0417	UPPER CYLINDER UNIT	1	NV-G45A/EA
8(1)		VJR0082	RT TERMINAL	1	
11(1)		VXL1495	TENSION ARM (1) UNIT	1	
12(1)		VMB1563	TENSION SPRING	1	
13(1)		VXZ0225	TENSION BAND UNIT	1	
14(1)		VXR0145	SUPPLY REEL TABLE UNIT	1	
15(1)		VMX1171	REEL WASHER (0.5mm)	2	
15(1)		VMX1239	REEL WASHER (0.3mm)	2	
15(1)		VMX1238	REEL WASHER (0.2mm)	2	
16(1)		VXL1496	TENSION RELEASE ARM(A)UNIT	1	
17(1)		VBS0038	FE HEAD	1	
18(1)		VXA2705	TENSION ARM BASE (1) UNIT	1	
19(1)		VMA6895	MOUNT ANGLE (L)	1	
20(1)		VMX1079	CUT WASHER	3	
21(1)		VXL1497	TENSION RELEASE ARM(B)UNIT	1	
22(1)		VMB1582	TENSION RELEASE SPRING	1	
23(1)		VES0350	SAFETY SW	1	
24(1)		VXZ0229	SUPPLY MAIN BRAKE UNIT	1	
25(1)		VXZ0228	SUPPLY SOFT BRAKE(1)UNIT	1	
26(1)		VMB1564	SUPPLY SOFT BRAKE SPRING	1	
27(1)		VXZ0231	TAKE UP MAIN BRAKE UNIT	1	
28(1)		VXZ0221	TAKE UP SOFT BRAKE UNIT	1	
29(1)		VMB1561	TAKE UP SOFT BRAKE SPRING	1	
30(1)		VMA6896	MOUNT ANGLE (R)	1	
31(1)		VHD0322	ADJUST SCREW	1	
32(1)		VMB1251	ADJUST SPRING	1	
33(1)		VHD0089B	AZIMUTH ADJUST SCREW	1	
34(1)		VBR0132	A/C HEAD	1	
35(1)		VHN0063	M4 NYLON NUT	1	
36(1)		VHN0050	ADJUST NUT	1	
37(1)		VXA2675	HEAD BASE UNIT	1	
38(1)		VMB1567	A/C HEAD SPRING	1	
39(1)		VXL1480	SUB LOADING ARM (1) UNIT	1	
40(1)		VMB1566	SUB POST SPRING	1	
41(1)		VXQ0006	THRUST SCREW UNIT	1	
42(1)		VHD0317	HOUSING SCREW	2	
43(1)		VMX1033	OIL SEAL	2	
44(1)		VMX1353	PINCH CAM CAP	1	
45(1)		VXL1743	PRESSURE ROLLER UNIT	1	
46(1)		VMB1568	PIN PRESSURE SPRING	1	
47(1)		VML1873	PINCH PRESSURE ARM	1	
48(1)		VMB1569	PINCH PRESSURE ARM RELEASE	1	
			SPRING		
49(1)		VML1874	PINCH LIFT ARM	1	
50(1)		VDG0357	P5 PULL OUT SECTOR GEAR	1	
51(1)		VDG0421	PINCH CAM	1	
52(1)		VHN0023	M3 NYLON NUT	1	
53(1)		VXL1485	P5 UNIT	1	
54(1)		VMB1554	P5 SPRING	1	
55(1)		VSS0175	MODE SW	1	
56(1)		VSC1851	SHIELD PLATE	1	
57(1)		VXP0863	ROLLER POST UNIT	1	
58(1)		VXA2729	INCLIND BASE (S)(1)UNIT	1	
59(1)		VHD0133	ROLLER POST SCREW	2	
60(1)		VMD0910	POST STOPPER	2	
61(1)		VXP0764A	ROLLER POST UNIT	1	
62(1)		VXA2686	INCLIND BASE(T)(1)UNIT	1	
63(1)		VXA2687	INCLIND ADJUST PLATE UNIT	1	
64(1)		VDG0483	PINCH SPEED DOWN GEAR	1	
65(1)		VDG0332	CONNECTION GEAR	1	
66(1)		VXA2693	SOLENOID	1	
67(1)		VXA2692	KICK ROD UNIT	1	
68(1)		VML1849	SOLENOID LEVER (1) UNIT	1	
69(1)		VMB1553	KICK ROD SPRING	1	
70(1)		VMB1565	MAIN BRAKE SPRING	1	
71(1)		VXR0146	TAKE UP REEL TABLE UNIT	1	
72(1)		VXD0101	HOUSING UNIT	1	
76(1)		VHD0374	HOUSING SCREW	1	
100(2)		VMX1079	CUT WASHER	9	
101(2)		VMB1583	TAKE UP SOFT BRAKE RELEASE	1	
			ARM SPRING		
102(2)		VMB1560	MAIN LEVER SPRING	1	
103(2)		VXA2701	MAIN LEVER (1) UNIT	1	
104(2)		VMM0160	SUB LEVER	1	
105(2)		VXL1500	SS BRAKE ARM UNIT	1	
106(2)		VMB1588	SS BRAKE SPRING	1	
107(2)		VXA2707	SS BRAKE BASE (1) UNIT	1	
108(2)		VXA2674	TENSION ROLLER UNIT	1	
109(2)		VXL1632	CAM FOLLOWER ARM UNIT	1	
110(2)		VML1861	DETENT ARM	1	
111(2)		VDG0346	MAIN CAM GEAR	1	
112(2)		VDG0343	SUB CAM GEAR	1	
113(2)		VDG0348	CENTRE GEAR	1	
114(2)		VDG0422	RETAINER GEAR	1	
115(2)		VDG0345	PLANET GEAR	3	
116(2)		VDG0349	CLUTCH DISK	1	
117(2)		VMB1558	CLUTCH SPRING	1	
118(2)		VDG0350	LOCK SLIDE GEAR	1	
119(2)		VDG0335	DRIVE DISK	1	
120(2)		VDG0342	RING GEAR	1	
121(2)		VMX0967	CUT WASHER	2	
122(2)		VML1859	CHANGE LEVER	1	
123(2)		VXA2672	RELEASE LEVER (1) UNIT	1	
124(2)		VMB1557	RELEASE SPRING	1	
125(2)		VML1860	RELEASE LEVER	1	
127(2)		VXP0923	TAKE UP REEL GEAR UNIT	1	
128(2)		VDG0445	SUPPLY REEL GEAR	1	
129(2)		VML1858	RETURN LEVER (R)	1	
130(2)		VML1857	RETURN LEVER (L)	1	
131(2)		VMD0913	STOPPER BASE	1	
132(2)		VDV0169	TIMING BELT	1	
133(2)		VXP0777	ROTOR UNIT	1	
134(2)		VMA6998	ROTOR STOPPER	1	
135(2)		VEK2944	STATOR UNIT	1	<!>
136(2)		VMA6847	SUB PLATE	1	
137(2)		VXP0917	CENTRE PULLEY UNIT	1	
138(2)		VDG0420	LOADING GEAR (T)	1	
139(2)		VMB1555	LOADING SPRING (T)	1	
140(2)		VXL1489	LOADING ARM (T)(1) UNIT	1	
141(2)		VXA3144	SECTOR GEAR UNIT	1	
142(2)		VDG0448	LOADING CAM GEAR	1	
143(2)		VDG0419	LOADING GEAR (S)	1	
144(2)		VML1855	PLAY CONTROL ARM	1	
145(2)		VXL1487	LOADING ARM (S)(1) UNIT	1	
146(2)		VDG0336	INTERMEDIATE GEAR	1	
147(2)		VXL1490	PLAY ARM UNIT	1	
148(2)		VBK0048	FG HEAD	1	
149(2)		VMB1746	LOADING SPRING(S)	1	
201(3)		VMA7223	TOP PLATE	1	
202(3)		VXA2679	CASSETTE HOLDER UNIT	1	
203(3)		VMB1573	MOUNT LEVER SPRING	1	
204(3)		VMD0919	HOLDER GUIDE (L)	1	
205(3)		VMM0163	MOUNT LEVER	1	
206(3)		VDP1077	ROLLER	2	
207(3)		VML1883	PRESSURE LEVER (L)	1	
208(3)		VMA6902	HOLDER ANGLE	1	
209(3)		VMA6901	CASSETTE HOLDER	1	
210(3)		VML1882	OPENER LEVER	1	
211(3)		VML1884	PRESSURE LEVER (R)	1	
212(3)		VMB1584	OPENER LEVER SPRING	1	
213(3)		VMD0920	HOLDER GUIDE (R)	1	
214(3)		VMB1576	RELEASE SPRING	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
215(3)		VML1881	RELEASE LEVER	1	
216(3)		VXA2676	SIDE PLATE (L) UNIT	1	
217(3)		VMD0917	SIDE PLATE (L)	1	
218(3)		VML1880	OPENER LEVER	1	
219(3)		VXA3171	SIDE PLATE (R) UNIT	1	
220(3)		VMD0918	SIDE PLATE (R)	1	
221(3)		VXA3498	SLIDE SW UNIT	1	
222(3)		VML1886	DOWN SUPPORT LEVER	1	
223(3)		VMB1575	DOWN SUPPORT SPRING	1	
224(3)		VXA3148	RACK (A)(1) UNIT	1	
225(3)		VMB1778	CLUTCH SPRING	1	
226(3)		VMB1772	LOCK SPRING	1	
227(3)		VML1885	LOCK LEVER	1	
228(3)		VXA3147	RACK (B) UNIT	1	
229(3)		VXP0851	MAIN SHAFT UNIT	1	
230(3)		VMB1570	SUB WIPER SPRING (L)	1	
231(3)		VML1878	SUB WIPER ARM	1	
232(3)		VML1879	SUB WIPER ARM (R)	1	
233(3)		VMB1571	SUB WIPER SPRING (R)	1	
234(3)		VMA6900	CASSETTE GUIDE	1	
235(3)		VKF1026	BLINDER PANEL	1	NV-G40EG/B/A/EA
235(3)		VKF1022	BLINDER PANEL	1	NV-G45A/EA
236(3)		VMB1258	BLINDER SPRING	1	
237(3)		VMB1780	RACK (C) SPRING	1	
238(3)		VMA7237	CONNECTION ROD	1	
239(3)		VMB1779	CONNECTION ROD SPRING	1	
240(3)		VMA7224	CASSETTE HOLDER ANGLE	1	
300(4)		VYP2181	TOP PANEL UNIT	1	NV-G40EG
300(4)		VYP2180	TOP PANEL UNIT	1	NV-G40B/A/EA
					NV-G45A/EA
301(4)		VHD0304	TOP PANEL SCREW	4	NV-G40EG
301(4)		VHD0304	TOP PANEL SCREW	2	NV-G40B/A/EA
					NV-G45A/EA
302(4)		VKU0245	BOTTOM PLATE	1	
303(4)		VYP2184	FRONT PANEL UNIT	1	NV-G40EG
303(4)		VYP2244	FRONT PANEL UNIT	1	NV-G40B
303(4)		VYP2243	FRONT PANEL UNIT	1	NV-G40A/EA
303(4)		VYP2234	FRONT PANEL UNIT	1	NV-G45A/EA
304(4)		VYF1197	FRONT DOOR UNIT	1	NV-G40EG/B/A/EA
304(4)		VYF1203	FRONT DOOR UNIT	1	NV-G45A/EA
305(4)		VGQ0550	DOOR LOCK PIECE	1	NV-G40EG/B/A/EA
306(4)		VMG0272	RF CONVERTER BUSHING	2	NV-G40EG/B
306(4)		VMG0272	RF CONVERTER BUSHING	1	NV-G40A/EA,NV-G45A/EA
307(4)		VYP1803	FRONT LOWER PANEL UNIT	1	NV-G45A/EA
308(4)		VGQ1084	FRONT DOOR SHAFT (A)	1	NV-G45A/EA
309(4)		VGQ1085	FRONT DOOR SHAFT (B)	1	NV-G45A/EA
310(4)		VGQ1086	FRONT DOOR SHAFT (C)	1	NV-G45A/EA
311(4)		VHD0059	BOTTOM PLATE SCREW	7	NV-G40EG
311(4)		VHD0059	BOTTOM PLATE SCREW	5	NV-G40B/A/EA
					NV-G45A/EA
313(4)		VXA3223	POWER SHIELD CASE (MAIN)	1	
314(4)		VSC2351	POWER SHIELD CASE (TOP)	1	
315(4)		VGH1476	NAME PLATE	1	
316(4)		VGQ1377	Tr. HOLDER	1	
317(4)		VMZ1224	INSULATION SHEET	1	<!>
318(4)		VMZ1140	SW BARRIER (A)	1	<!>
319(4)		VSC2237	POWER SHIELD CASE (BOTTOM)	1	
320(4)		VKC0326	MAIN HINGE	2	
321(4)		VKA0026	RUBBER FOOT	2	
322(4)		VMP1038	TOP HOLDER ANGLE (R) (1)	1	
323(4)		VMP1125	TOP HOLDER ANGLE (R) (2)	1	NV-G40EG
324(4)		VMP1037	TOP HOLDER ANGLE (L)	2	NV-G40EG
324(4)		VMP1037	TOP HOLDER ANGLE (L)	1	NV-G40B/A/EA
					NV-G45A/EA
325(4)		VMP1547	EARTH ANGLE	1	
327(4)		VKC0327	TIMER HINGE (A)	1	
328(4)		VKC0328	TIMER HINGE (B)	1	
329(4)		VSC2524	BCI SHIELD PLATE	1	NV-G40EG/EA,NV-G45EA
330(4)		VMA7618	EARTH ANGLE	1	NV-G40EG
400(5)		VQT2543	OPERATING INSTRUCTIONS	1	NV-G40EG <!>
			(ENGLISH/GERMAN/GREEK)		
400(5)		VQT2578	OPERATING INSTRUCTIONS	1	NV-G40B <!>
400(5)		VQT2620	OPERATING INSTRUCTIONS	1	NV-G40A/EA <!>
400(5)		VQT2570	OPERATING INSTRUCTIONS	1	NV-G45A/EA <!>
401(5)		VJA0376	DIN RF CABLE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
403(5)		VEQ0686	REMOTE CONTROL UNIT	1	NV-G40EG
403(5)		VEQ0703	REMOTE CONTROL UNIT	1	NV-G40B
403(5)		VEQ0684	REMOTE CONTROL UNIT	1	NV-G40A/EA
403(5)		VEQ0685	REMOTE CONTROL UNIT	1	NV-G45A/EA
404(5)		VPN2058	CUSHION (L)	1	NV-G40A/EA
404(5)		VPN2092	CUSHION (L)	1	NV-G45A/EA
405(5)		VPN2057	CUSHION (R)	1	NV-G40A/EA
405(5)		VPN2091	CUSHION (R)	1	NV-G45A/EA
406(5)		VPG3890	PACKING CASE	1	NV-G40A
406(5)		VPG3891	PACKING CASE	1	NV-G40EA
406(5)		VPG3885	PACKING CASE	1	NV-G45A
406(5)		VPG3886	PACKING CASE	1	NV-G45EA
408(5)		VJA0443	AC CORD	1	NV-G40EG <!>
408(5)		VJA0445	AC CORD	1	NV-G40B <!>
408(5)		VJA0447	AC CORD	1	NV-G40A/EA,NV-G45A/EA
					<!>
409(5)		VEQ0691	DIGITAL SCANNER	1	NV-G40EG
409(5)		VEQ0692	DIGITAL SCANNER	1	NV-G40B,NV-G45A/EA
409(5)		VEQ0639	DIGITAL SCANNER	1	NV-G40A/EA
410(5)		VQC1182	PROGRAMME SHEET	1	NV-G40EG
410(5)		VQC1217	PROGRAMME SHEET	1	NV-G40B
410(5)		VQC1185	PROGRAMME SHEET	1	NV-G40A/EA
410(5)		VQC1162	PROGRAMME SHEET	1	NV-G45A/EA
412(5)		VPK0825	ACCESSORIES PACKING CASE	1	NV-G40A/EA,NV-G45A/EA
414(5)		VFC0115	DIGITAL SCANNER CASE	1	NV-G40EG/B
414(5)		VFC0111	DIGITAL SCANNER CASE	1	NV-G40A/EA,NV-G45A/EA
416(5)		VQF2115	CLEANING BRUSH	1	
417(5)		VPN2179	BOTTOM PAD	1	
450(6)		VYK1939	TOP CASE UNIT	1	NV-G40EG
450(6)		VYK1987	TOP CASE UNIT	1	NV-G40B
450(6)		VYK1937	TOP CASE UNIT	1	NV-G40A/EA
450(6)		VYK1938	TOP CASE UNIT	1	NV-G45A/EA
451(6)		VKM1133	BOTTOM CASE	1	NV-G40EG/B,NV-G45A/EA
451(6)		VKM1313	BOTTOM CASE	1	NV-G40A/EA
452(6)		VKF0971	BATTERY COVER	1	NV-G40EG/B,NV-G45A/EA
452(6)		VKF0958	BATTERY COVER	1	NV-G40A/EA
453(6)		VKW0878	IR WINDOW	1	
454(6)		VSP0313	RUBBER CONTACT	1	NV-G40EG
454(6)		VSP0325	RUBBER CONTACT	1	NV-G40B
454(6)		VSP0311	RUBBER CONTACT	1	NV-G40A/EA
454(6)		VSP0312	RUBBER CONTACT	1	NV-G45A/EA
455(6)		VJR0185	ELECTRODE (COMMON)	1	
470(6)		VYK1992	TOP CASE UNIT	1	NV-G40EG
470(6)		VYK1993	TOP CASE UNIT	1	NV-G40B,NV-G45A/EA
470(6)		VKM1269	TOP CASE	1	NV-G40A/EA
471(6)		VGU4099	TRANSMISSION BUTTON	1	NV-G40EG/B,NV-G45A/EA
471(6)		VGU4247	TRANSMISSION BUTTON	1	NV-G40A/EA
472(6)		VGU4100	POWER SW KNOB	1	NV-G40EG/B,NV-G45A/EA
472(6)		VGU3709	POWER SW KNOB	1	NV-G40A/EA
473(6)		VJR0411	ELECTRODE (+)	1	NV-G40EG/B,NV-G45A/EA
473(6)		VJR0395	ELECTRODE (+)	1	NV-G40A/EA
474(6)		VJR0412	ELECTRODE (-)	1	NV-G40EG/B,NV-G45A/EA
474(6)		VJR0396	ELECTRODE (-)	1	NV-G40A/EA
475(6)		VJR0272	ELECTRODE (COMMON)	1	
476(6)		VKF1024	BATTERY CASE	1	NV-G40EG/B,NV-G45A/EA
476(6)		VKF0900	BATTERY CASE	1	NV-G40A/EA
477(6)		VKM1331	BOTTOM CASE	1	NV-G40EG/B,NV-G45A/EA
477(6)		VKM1207	BOTTOM CASE	1	NV-G40A/EA
478(6)		VKW0940	SMOKE FILTER	1	NV-G40EG/B,NV-G45A/EA
478(6)		VKW0772	SMOKE FILTER	1	NV-G40A/EA
479(6)		VSQ0567	SENSOR UNIT	1	
480(6)		VKM1332	SENSOR CAP	1	NV-G40EG/B,NV-G45A/EA
480(6)		VKM0995	SENSOR CAP	1	NV-G40A/EA
			JIG		
		VFJ8125H3F	VHS-ALIGNMENT TAPE	1	(PAL)
		VFK0335	RETAINING RING REMOVER	1	(3mm/4mm)
		VFK0387	TENSION POST ADJUSTMENT	1	
			PLATE		
		VFK0191	POST ADJUSTMENT PLATE	1	
		VFK0190	REEL TABLE HEIGHT GAUGE	1	
		VFK0328	H-POSITION ADJUSTMENT	1	
			SCREWDRIVER		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK62	FAN TYPE TENSION GAUGE	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK0343	CHECK LIGHT	1	
		VFK0344	HEIGHT ADJUSTMENT JIG	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0341	UPPER CYLINDER REMOVER	1	
		VEE4250	RF ADJUSTMENT CABLE (220mm)	1	

2. NV-G40EG/B/A/EA Electrical Replacement Parts List

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.
3.Unless otherwise specified,
All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4.The P.C.Board units marked width'▮'show below the main assembled parts.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
**********		NV-G40EG/B			
		/A/EA			
		VEP03493T	MAIN C.B.A.	1	NV-G40EG <!> (NLA)
					INCLUDING THE SUB
					MAIN C.B.A.
					(VEP02302E),
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03543C),
					SECAM PACK C.B.A.
					(VEP03452B),
					TV DEMODULATOR PACK
					C.B.A.(VEP07444N OR
					VEP07466A),
					INPUT/OUTPUT PACK
					C.B.A.(VEP03494A),
					VPS PACK C.B.A.
					(VEP07439A).
		VEP03493G	MAIN C.B.A.	1	NV-G40B <!> (NLA)
					INCLUDING THE SUB
					MAIN C.B.A.
					(VEP02302B),
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03543D),
					TV DEMODULATOR PACK
					C.B.A.(VEP07444E).
		VEP03493C	MAIN C.B.A.	1	NV-G40A <!> (NLA)
					INCLUDING THE SUB
					MAIN C.B.A.
					(VEP02302B),
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03543D),
					TV DEMODULATOR PACK
					C.B.A.(VEP07444B).
		VEP03493D	MAIN C.B.A.	1	NV-G40EA <!> (NLA)
					INCLUDING THE SUB
					MAIN C.B.A.
					(VEP02302D),
					C.B.A.(VEP03543D),
					TV DEMODULATOR PACK
					C.B.A.(VEP07444A).
		VEP02302E	SUB MAIN C.B.A.	1	NV-G40EG (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493T).
		VEP02302B	SUB MAIN C.B.A.	1	NV-G40B/A (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493G/C).
		VEP02302D	SUB MAIN C.B.A.	1	NV-G40EA (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493D).
		VEP03543C	LUMINANCE & CHROMINANCE	1	NV-G40EG (NLA)
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP03493T).
					INCLUDING THE SECAM
					PACK C.B.A.
					(VEP03452B).

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03543D	LUMINANCE & CHROMINANCE	1	NV-G40B/A/EA (NLA)
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP03493G/C/D)
		VEP03452B	SECAM PACK C.B.A.	1	NV-G40EG (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493T).
		VEP07444N	TV DEMODULATOR PACK C.B.A.	1	NV-G40EG (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493T).
					[VEP07466A IS NO
					LONGER DISCONTINU-
					-ATION OF PRODUCTS.
					VEP07444N IS
					COMPATIBLE WITH
					VEP07466A AS UNIT.
					WHEN ORDERING
					INDIVIDUAL PARTS ON
					THE TV DEMODU. PACK
					C.B.A.(VEP07466A),
					PLEASE REFER THE
					SERVICE MANUAL FOR
					NV-G40EG (ORDER NO.
					VRD8712M165).]
		VEP07444E	TV DEMODULATOR PACK C.B.A.	1	NV-G40B (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493G).
		VEP07444B	TV DEMODULATOR PACK C.B.A.	1	NV-G40A (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493C).
		VEP07444A	TV DEMODULATOR PACK C.B.A.	1	NV-G40EA (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493D).
		VEP03494A	INPUT/OUTPUT PACK C.B.A.	1	NV-G40EG (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493T).
		VEP07439A	VPS PACK C.B.A.	1	NV-G40EG (NLA)
					INCLUDED IN MAIN
					C.B.A.(VEP03493T).
		VEP07434B	TIMER C.B.A.	1	NV-G40EG (NLA)
					INCLUDING THE
					IR RECEIVER C.B.A.
					(VEP06380E).
		VEP07434D	TIMER C.B.A.	1	NV-G40B (NLA)
					INCLUDING THE
					IR RECEIVER C.B.A.
					(VEP06380E).
		VEP07434E	TIMER C.B.A.	1	NV-G40A/EA (NLA)
					INCLUDING THE
					IR RECEIVER C.B.A.
					(VEP06380E).
		VEP06380E	IR RECEIVER C.B.A.	1	(NLA)
					INCLUDED IN TIMER
					C.B.A.(VEP07434B/D/E)
		VEP06464B	OPERATION C.B.A.	1	NV-G40EG/A/EA (NLA)
		VEP06464A	OPERATION C.B.A.	1	NV-G40B (NLA)
		VEP05117A	HEAD AMP C.B.A.	1	(NLA)
		VEP01310C	POWER C.B.A.	1	NV-G40EG (NLA)
					INCLUDING THE
					POWER INLET C.B.A.
					(VEP01311B).

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP01310D	POWER C.B.A.	1	NV-G40B (NLA)
					INCLUDING THE
					POWER INLET C.B.A.
					(VEP01311B).
		VEP01310E	POWER C.B.A.	1	NV-G40A (NLA)
					INCLUDING THE
					POWER INLET C.B.A.
					(VEP01311C).
		VEP01310F	POWER C.B.A.	1	NV-G40EA (NLA)
					INCLUDING THE
					POWER INLET C.B.A.
					(VEP01311D).
		VEP01311B	POWER INLET C.B.A.	1	NV-G40EG/B (NLA)
					INCLUDED IN POWER
					C.B.A.(VEP01310C/D).
		VEP01311C	POWER INLET C.B.A.	1	NV-G40A (NLA)
					INCLUDED IN POWER
					C.B.A.(VEP01310E).
		VEP01311D	POWER INLET C.B.A.	1	NV-G40EA (NLA)
					INCLUDED IN POWER
					C.B.A.(VEP01310F).
		VEK3583	MECHANISM CONNECTION C.B.A.	1	(NLA)
		VEK3555	REEL SENSOR C.B.A.	1	(NLA)
		VXA2689	LED C.B.A.	1	(NLA)
		- - - - -	PHOTO Tr.(T) C.B.A.	1	THIS PART IS INCLUDED
					IN SLIDE SW UNIT
					(VXA3498).
		VEK3578	PHOTO Tr.(S) C.B.A.	1	(NLA)
		VEP66038A	REMOTE CONTROL C.B.A.	1	NV-G40EG/B (NLA)
		VEP66042A	REMOTE CONTROL C.B.A.	1	NV-G40A/EA (NLA)
		VEP66039C	DIGITAL SCANNER C.B.A.	1	NV-G40EG/A/EA (NLA)
		VEP66039B	DIGITAL SCANNER C.B.A.	1	NV-G40B (NLA)
		ENC87966	RF CONVERTER	1	NV-G40EG <!>
		ENC87962	RF CONVERTER	1	NV-G40B <!>
		ENC87907	RF CONVERTER	1	NV-G40A <!>
		ENC87906	RF CONVERTER	1	NV-G40EA <!>
		ENV57816F1	TUNER	1	NV-G40EG <!>
		ENV87806F2	TUNER	1	NV-G40B <!>
		ENV77820F2	TUNER	1	NV-G40A <!>
		ENV77817F2	TUNER	1	NV-G40EA <!>
F1001		XBA2C16TB0	FUSE	1	<!>
	■	VEP03493T	MAIN C.B.A.		NV-G40EG <!> (NLA)
			CAPACITORS		
C301		ECEA1EKN2R2	E.CAPACITOR 25V 2.2U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C303		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C304		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C305		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C306		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C310		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C311,12		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C313		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C314		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C315		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C317		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C319		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C320		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C321		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C322		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C324		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C325,26		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C327,28		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C329		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C331		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C332		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C333		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C335		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C336		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C337		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C338		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C339		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C340		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C349		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C351		ECCF1H220JC	C.CAPACITOR 50V 22P	1	
C352		ECQB1H562JZ	F.CAPACITOR 50V 5600P	1	
C353		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C360		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C701		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	1	
C702		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C705		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	1	
C707		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C708		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C709		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	1	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C715-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C721		ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C727		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C732		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C735		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C736		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C737		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUM1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270RSN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUM1H680JPN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C747		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C748		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C760		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C775		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C781		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C782		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C786		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	1	
C801		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C814		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C815		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C816		ECUM1E1042FN	C.CAPACITOR CH 25V 0.1U	1	
C817		ECQV1H124JZ	P.CAPACITOR 50V 0.12U	1	
C818		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C819		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C820		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C821		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C823		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C824		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C825		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C826		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C827		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C828		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C829		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C830		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C831,32		ECUM1E1042FN	C.CAPACITOR CH 25V 0.1U	2	
C851		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C852		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C853		ECEA10Z47	E.CAPACITOR 10V 47U	1	
C854		ECQV1H563JZ	P.CAPACITOR 50V 0.056U	1	
C855		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C856		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C858		ECKF1H681KB	C.CAPACITOR 50V 680P	1	
C1101		ECEA1EK100	E.CAPACITOR 25V 10U	1	
C2022		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2023		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2024		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C2026		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C2027		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2101		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2102		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2103		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2104		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2105		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C2106		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2107		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2108		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2109		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2110		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2112		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2113		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2114		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2115		ECEA1HKNR33	E.CAPACITOR 50V 0.33U	1	
C2116		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2117		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2118		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2119		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C2120		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2121		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2122		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2124,25		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C2126		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2127		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2129		ECQV1H394JZ	P.CAPACITOR 50V 0.39U	1	
C2130		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2131		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2132		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2133		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2134		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2135		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2137		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2138		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2139		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2140		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2141		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2142,43		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2144		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C2145		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2146		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2148		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2150		VCYD1E223KR	S.CAPACITOR 25V 0.022U	1	
C2151		ECKF1H332KB	C.CAPACITOR 50V 3300P	1	
C2153		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2154		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2155		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2158		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2172		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C2173		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2183		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2185		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2187		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2188		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2501-03		ECQB1H333JH	P.CAPACITOR 50V 0.033U	3	
C2504-06		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2507		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C2508		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2511		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2512-14		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	3	
C2517		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C2519		ECEA25Z47	E.CAPACITOR 25V 47U	1	
C2901		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2902-04		ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	3	
C2905		ECQB1H473JH	P.CAPACITOR 50V 0.047U	1	
C2906		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2907		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2908-10		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	3	
C2911		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2912		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3001		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3003,04		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3007		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3010		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3011		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3012		ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C3013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3014		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C3015		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3016		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3019		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3051		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3053		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C3054		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3055		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C3056		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3057		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3058		ECQB1H392JH	P.CAPACITOR 50V 3900P	1	
C3059		ECQP1562JZ	P.CAPACITOR 100V 5600P	1	
C3060		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3061		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C3062,63		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C3064		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3067,68		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3070		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3072		ECKF1H101KB	C.CAPACITOR 50V 100P	1	
C3801,02		ECEA1CK220	E.CAPACITOR 16V 22U	2	
C3803		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3804		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C3805,06		ECEA1CK470U	E.CAPACITOR 16V 47U	2	
C3807		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C3808		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3809		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C3810		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C3811		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C3812		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C3813		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3814,15		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C3816		ECKF1H121KB	C.CAPACITOR 50V 120P	1	
C3817		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3818		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C3819		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C3821		ECKF1H471KB	C.CAPACITOR 50V 470P	1	
C3822		VCYD1E103KR	S.CAPACITOR 25V 0.01U	1	
C3823		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C3824		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C3825		ECCF1H100DC	C.CAPACITOR 50V 10P	1	
C3826		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C3827		ECCF1H050CC	C.CAPACITOR 50V 5P	1	
C3828		ECCF1H100DC	C.CAPACITOR 50V 10P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4001		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C4002		ECEA16Z33	E.CAPACITOR 16V 33U	1	
C4003		ECKF1H1022F	C.CAPACITOR 50V 1000P	1	
C4004		ECQP1332JZ	P.CAPACITOR 100V 3300P	1	
C4005		ECCD2H121K	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4011		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C4015		ECEA1CKL100	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA16M10	E.CAPACITOR 16V 10U	1	
C4018		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C4022		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4023		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4032		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6001		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6002		VCYD1C103MR1	S.CAPACITOR 16V 0.01U	1	
C6003		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C6006		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6007		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6013		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C6017-19		ECEA0JK470	E.CAPACITOR 6.3V 47U	3	
C6020		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6023		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C6024-26		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	3	
C6027		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C6028		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6029		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C7551		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7552		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7553		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7554		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7555,56		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7557		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7558		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7559		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7560-63		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C7564		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7565		ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	1	
C7569		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7571		EECS5R5V473	E.CAPACITOR 5.5V 0.047	1	
C7590		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C7591		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7592		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7593,94		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	2	
C7801		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C7802		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C7803		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7804		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C7805		ECCF1H150JC	C.CAPACITOR 50V 15P	1	
C7806		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C7807		ECKF1H471KB	C.CAPACITOR 50V 470P	1	
C7808		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C7809		ECKF1H271KB	C.CAPACITOR 50V 270P	1	
C7810		ECCF1H101JC	C.CAPACITOR 50V 100P	1	
C7811		ECCF1H180JC	C.CAPACITOR 50V 18P	1	
C7812		ECCF1H820JC	C.CAPACITOR 50V 82P	1	
C7814		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C7815		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C7816		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C7818		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7819,20		ECCF1H101JC	C.CAPACITOR 50V 100P	2	
C7821		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7851		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7852		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C7853,54		ECCF1H330JC	C.CAPACITOR 50V 33P	2	
C7855,56		ECEA1HK010	E.CAPACITOR 50V 1U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7860		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
			DIODES		
D301		MA4091M	DIODE	1	
D710		MA3100L	DIODE	1	
D712		MA28W	DIODE	1	
D771		MA151WK	DIODE	1	
D1101,02		MA165	DIODE	2	
D2007		MA165	DIODE	1	
D2014		MA165	DIODE	1	
D2101-05		MA165	DIODE	5	
D3008,09		MA165	DIODE	2	
D3801		MA165	DIODE	1	
D4001		MA165	DIODE	1	
D4050		MA165	DIODE	1	
D6001		ERA15-01	DIODE	1	
D6002		MA165	DIODE	1	
D6004		MA165	DIODE	1	
D6017		ERA15-01	DIODE	1	
D6019		MA4150M	DIODE	1	
D6023		MA165	DIODE	1	
D6023,24		MA165	DIODE	2	
D6028,29		MA165	DIODE	2	
D6030		MA4056L	DIODE	1	
D6032		MA165	DIODE	1	
D7851		MA165	DIODE	1	
			DELAY LINE		
DL802		VLD0148	DELAY LINE	1	
			FILTERS		
FL301		ELB4M022	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0567	FILTER	1	
FL801		VLF0299	FILTER	1	
FL851		VLF0143	FILTER	1	
FL3001		VLF0413	FILTER	1	
			ICS		
IC301		VEFH03D	HIC	1	
IC303		MSM6965-3RS	IC	1	
IC701		M51366SP	IC	1	
IC801		VEFH04A	HIC	1	
IC851		BA7025L	IC	1	
IC2101		UPD6160AA607	IC	1	
IC2102		UPD6161CA604	IC	1	
IC2103		AN6562	IC	1	
IC2501		BA6432S	IC	1	
IC2901		AN3814K	IC	1	
IC3001		BA7004	IC	1	
IC3002		AN5421N	IC	1	
IC3801		M5202AP	IC	1	
IC3802		AN6552	IC	1	
IC4001		BA7766AS	IC	1	
IC6001		MN15362VNK	IC	1	
IC6002		AN6914	IC	1	
IC6003		MN4510B	IC	1	
IC6004		MN12821R	IC	1	
IC7551		AN5043	IC	1	
IC7552		AN6913	IC	1	
IC7553		MN4066B	IC	1	
IC7801		SAA5235	IC	1	
IC7802		SAF1135P	IC	1	
IC7851		MN158412VNL	IC	1	
IC7852		MN1280T	IC	1	
			PACK PIN		
KR851		VJR0163	PACK PIN	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			COILS		
L301		VLQEL05F101K	COIL 100UH	1	
L302		VLQEL05F220K	COIL 22UH	1	
L303,04		VLQEL05F101K	COIL 100UH	2	
L306		VLQEL05F101K	COIL 100UH	1	
L307		VLQEL05F151K	COIL 150UH	1	
L308		VLQEL05F270K	COIL 27UH	1	
L309,10		VLQEL05F101K	COIL 100UH	2	
L311		VLQEL05F2R2K	COIL 2.2UH	1	
L701,02		ELESP680KA	COIL 68UH	2	
L712		VLQ0305J1R2	COIL 1.2UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L716		VLQEL05F560K	COIL 56UH	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP680KA	COIL 68UH	1	
L804		VLQEL05F150K	COIL 15UH	1	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F681K	COIL 680UH	1	
L808		VLQEL05F470K	COIL 47UH	1	
L809		VLQEL05F331K	COIL 330UH	1	
L810		VLQEL05F101K	COIL 100UH	1	
L811		VLQEL05F470K	COIL 47UH	1	
L812		VLQEL05F681K	COIL 680UH	1	
L851		VLQEL05F101K	COIL 100UH	1	
L2501		VLQEL05F102K	COIL 1000UH	1	
L2502		VLP0074	COIL	1	
L3001-03		VLQEL05F101K	COIL 100UH	3	
L3005		VLQEL05F120K	COIL 12UH	1	
L3006		VLQEL05F5R6K	COIL 5.6UH	1	
L3007		VLQEL05F101K	COIL 100UH	1	
L3008		VLQEL05F3R3K	COIL 3.3UH	1	
L3012		VLQEL05F101K	COIL 100UH	1	
L3014		VLQEL05F470K	COIL 47UH	1	
L3014		VLQEL05F470K	COIL 47UH	1	
L3801		VLQEL05F101K	COIL 100UH	1	
L3802		VLQEL05F1R0K	COIL 1UH	1	
L3803		VLQEL06F471K	COIL 470UH	1	
L3804		VLQEL05F2R7K	COIL 2.7UH	1	
L3805,06		VLQEL05F1R0K	COIL 1UH	2	
L4001		VLQEL07F822J	COIL 8200UH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L7551		VLQEL05F680K	COIL 68UH	1	
L7801		VLQ0193	COIL	1	
L7802,03		VLQEL05F101K	COIL 100UH	2	
			CONNECTORS		
P006		VJS1902	CONNECTOR (FEMALE)	1	
P501		VJS1236T	CONNECTOR (FEMALE)	1	
P1001		VJF0171T	CONNECTOR	1	
P1101		VJF0171R	CONNECTOR	1	
P1101		VJP1393T	CONNECTOR(MALE) 13P	1	
P2001		VJP1235T	CONNECTOR(MALE) 8P	1	
P2001		VJS1235T	CONNECTOR (FEMALE)	1	
P2002		VJP1932T	CONNECTOR (MALE)	1	
P2002		VJS1932	CONNECTOR (FEMALE)	1	
P2901		VJS1237T	CONNECTOR	1	
P3001		VJP1236T	CONNECTOR(MALE) 9P	1	
P3001		VJS1236T	CONNECTOR (FEMALE)	1	
P4001		VJP1233T	CONNECTOR(MALE) 6P	1	
P6001		VJS2157W	CONNECTOR (FEMALE)	1	
P6002		VJS2149W	CONNECTOR (FEMALE)	1	
P6003		VJS2152W	CONNECTOR (FEMALE)	1	
P7401		VJS1475	CONNECTOR(FEMALE)	1	
P7402		VJS2157W	CONNECTOR (FEMALE)	1	
			PACK PINS		
PK1,K2		VJR0452	PACK PIN	2	
PK3801		VJR0456	PACK PIN	1	
PK3802		VJR0188	PACK PIN	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TRANSISTORS		
Q301		2SB709	TRANSISTOR CHIP	1	
Q302,03		2SC2295	TRANSISTOR CHIP	2	(B,C)
Q304		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q703		2SD601	TRANSISTOR	1	(S,T)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR	1	
Q714		2SD601	TRANSISTOR CHIP	1	
Q771		2SD601	TRANSISTOR CHIP	1	
Q772,73		2SK198	TRANSISTOR CHIP	2	
Q804		2SB709	TRANSISTOR CHIP	1	
Q2001		2SB709	TRANSISTOR CHIP	1	
Q2002-04		2SD601	TRANSISTOR CHIP	3	
Q2006		2SD1330	TRANSISTOR	1	(S,T)
Q2101,02		2SD601	TRANSISTOR CHIP	2	
Q2108		2SD601	TRANSISTOR CHIP	1	
Q2111,12		2SD601	TRANSISTOR CHIP	2	
Q3002		2SC2295	TRANSISTOR	1	
Q3004		2SB709	TRANSISTOR CHIP	1	
Q3006		2SC2295	TRANSISTOR	1	
Q3007		2SB641	TRANSISTOR	1	
Q3013		2SD601	TRANSISTOR CHIP	1	
Q3801,02		2SB641	TRANSISTOR	2	(Q,R,S)
Q3803		2SD636	TRANSISTOR	1	
Q4001		2SD602	TRANSISTOR	1	(R)
Q6007		2SB643	TRANSISTOR	1	
Q6009		2SB643	TRANSISTOR	1	(R,S)
Q6016		2SD1275	TRANSISTOR	1	(P,Q)
Q6017		2SD893	TRANSISTOR	1	
Q6018		2SD973	TRANSISTOR	1	(S)
Q6019		2SD638	TRANSISTOR	1	
Q6020		2SD973	TRANSISTOR	1	(S)
Q7801		2SD636	TRANSISTOR	1	(Q,R,S)
Q7802,03		2SB641	TRANSISTOR	2	(Q,R,S)
			COMBINATION PARTS		
QR701,02		FA1L4M	TRANSISTOR-RESISTOR	2	
QR711,12		FA1F4M	TRANSISTOR-RESISTOR	2	
QR713,14		FA1A4M	TRANSISTOR-RESISTOR	2	
QR853		UN1213	TRANSISTOR-RESISTOR	1	
QR1101		UN2213	TRANSISTOR-RESISTOR	1	
QR2002		UN2212	TRANSISTOR-RESISTOR	1	
QR2007		UN2213	TRANSISTOR-RESISTOR	1	
QR2101,02		UN2113	TRANSISTOR-RESISTOR	2	
QR2104		UN2110	TRANSISTOR-RESISTOR	1	
QR2105		UN2117	TRANSISTOR-RESISTOR	1	
QR2106		UN2115	TRANSISTOR-RESISTOR	1	
QR3004		UN2111	TRANSISTOR-RESISTOR	1	
QR6001		UN2212	TRANSISTOR-RESISTOR	1	
QR6006		UN2111	TRANSISTOR-RESISTOR	1	
QR6008		UN2119	TRANSISTOR-RESISTOR	1	
QR6011		UN2212	TRANSISTOR-RESISTOR	1	
QR6012		UN2113	TRANSISTOR-RESISTOR	1	
QR7554		UN2213	TRANSISTOR-RESISTOR	1	
QR7561		UN2211	TRANSISTOR-RESISTOR	1	
QR7851		UN1211	TRANSISTOR-RESISTOR	1	
QR7852		UN1213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R301		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R302		ERJ6GMYJ391	CHIP 1/10W 390	1	
R303		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R304		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R305		ERJ6GMYJ824	CHIP 1/10W 820K	1	
R306		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R307		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R308		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R309		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R310		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R311		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R312		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R316		ERJ6GMYJ104	CHIP 1/10W 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R317		ERJ6GMYJ471	CHIP 1/10W 470	1	
R325		ERJ6GMYJ151	CHIP 1/10W 150	1	
R326		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R327		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R328		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R329		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R330		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R331		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R332		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R334,35		ERJ6GMYJ102	CHIP 1/10W 1K	2	
R338		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R339		ERJ6GMYJ101	CHIP 1/10W 100	1	
R707		ERJ6GEYJ223	CHIP 1/10W 22K	1	
R712		ERJ6GEYJ682	CHIP 1/10W 6.8K	1	
R713		ERJ6GEYJ681	CHIP 1/10W 680	1	
R714		ERD2FCG330	C.RESISTOR 2W 33	1	
R715		ERJ6GEYJ271	CHIP 1/10W 270	1	
R716		ERJ6GEYJ152	CHIP 1/10W 1.5K	1	
R717		ERJ6GEYJ332	CHIP 1/10W 3.3K	1	
R718		ERJ6GEYJ754	CHIP 1/10W 750K	1	
R719		ERJ6GEYJ682	CHIP 1/10W 6.8K	1	
R720		ERJ6GEYJ822	CHIP 1/10W 8.2K	1	
R721		ERJ6GEYJ332	CHIP 1/10W 3.3K	1	
R722		ERJ6GEYJ472	CHIP 1/10W 4.7K	1	
R723		ERJ6GEYJ183	CHIP 1/10W 180K	1	
R724		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R725		ERJ6GEYJ182	CHIP 1/10W 1.8K	1	
R726		ERJ6GEYJ472	CHIP 1/10W 4.7K	1	
R727		ERJ6GEYJ471	CHIP 1/10W 470	1	
R728		VRE0040E471	W.RESISTOR 470	1	
R729,30		ERJ6GEYJ331	CHIP 1/10W 330	2	
R737		ERJ6GEYJ274	CHIP 1/10W 270K	1	
R738		ERJ6GEYJ334	CHIP 1/10W 330K	1	
R739		ERJ6GEYJ681	CHIP 1/10W 680	1	
R740		ERJ6GEYJ473	CHIP 1/10W 47K	1	
R741,42		ERJ6GEYJ272	CHIP 1/10W 2.7K	2	
R743		ERJ6GEYJ470	CHIP 1/10W 47	1	
R744		ERJ6GEYJ821	CHIP 1/10W 820	1	
R745		ERJ6GEYJ331	CHIP 1/10W 330	1	
R746		VRE0040E181	W.RESISTOR 180	1	
R747		ERJ6GEYJ471	CHIP 1/10W 470	1	
R750		ERJ6GEYJ182	CHIP 1/10W 1.8K	1	
R757		ERJ6GEYJ222	CHIP 1/10W 2.2K	1	
R759		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R760		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R763		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R764		ERJ6GEYJ822	CHIP 1/10W 8.2K	1	
R772		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R773		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R774		ERJ6GEYJ333	CHIP 1/10W 33K	1	
R775		ERJ6GEYJ474	CHIP 1/10W 470K	1	
R776		ERJ6GEYJ105	CHIP 1/10W 1M	1	
R777		ERJ6GEYJ184	CHIP 1/10W 180K	1	
R778		ERJ6GEYJ105	CHIP 1/10W 1M	1	
R779		ERJ6GEYJ104	CHIP 1/10W 100K	1	
R781		ERJ6GEYJ271	CHIP 1/10W 270	1	
R782		ERJ6GEYJ821	CHIP 1/10W 820	1	
R792		ERJ6GEYJ120	CHIP 1/10W 12	1	
R815		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R816		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R818		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R819		ERJ6GMYJ182	CHIP 1/10W 1.8K	1	
R820		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R821,22		ERJ6GMYJ103	CHIP 1/10W 10K	2	
R823		ERJ6GMYJ271	CHIP 1/10W 270	1	
R824		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R825		ERJ6GMYJ182	CHIP 1/10W 1.8K	1	
R826		ERJ6GMYJ681	CHIP 1/10W 680	1	
R851		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R852		ERDS2TJ390	C.RESISTOR 1/4W 39	1	
R853		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R854		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R855		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R856		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R858		ERDS2TJ561	C.RESISTOR 1/4W 560	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R1101		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2007		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2008		ERJ6GMYG682	CHIP 1/10W 6.8K	1	
R2009		ERJ6GMYG512	CHIP 1/10W 5.1K	1	
R2010		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R2011		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2029		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2030		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2031		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R2032		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R2033		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2034		ERJ6GMYJ391	CHIP 1/10W 390	1	
R2037		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2038		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2046		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R2047,48		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2049		ERJ6GMYJ273	CHIP 1/10W 27K	1	
R2050		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2051		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2054		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2056		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R2101		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R2102		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R2103		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2104		ERJ6GMYJ221	CHIP 1/10W 220	1	
R2105		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2106		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R2107		ERJ6GMYJ101	CHIP 1/10W 100	1	
R2108		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2109		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R2110		ERJ6GMYJ274	CHIP 1/10W 270K	1	
R2111		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R2112,13		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2114		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R2115		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R2117		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2119		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2120		ERJ6GMYJ274	CHIP 1/10W 270K	1	
R2121		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2122,23		ERJ6GMYJ332	CHIP 1/10W 3.3K	2	
R2124		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2125		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2126		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2127		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2128		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R2129		ERJ6GMYJ221	CHIP 1/10W 220	1	
R2130,31		ERJ6GMYJ152	CHIP 1/10W 1.5K	2	
R2134		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2135		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2136,37		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2138		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R2139		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R2140		ERJ6GMYG333	CHIP 1/10W 33K	1	
R2141		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R2142		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2143		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2146		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2147		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R2148		ERJ6GMYG102	CHIP 1/10W 1K	1	
R2150		ERJ6GMYJ821	CHIP 1/10W 820	1	
R2153		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R2157		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R2158		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2159,60		ERJ6GMYJ223	CHIP 1/10W 22K	2	
R2161		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R2166,67		ERJ6GMYJ563	CHIP 1/10W 56K	2	
R2168,69		ERJ6GMYJ223	CHIP 1/10W 22K	2	
R2174		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2177		ERJ6GMYJ681	CHIP 1/10W 680	1	
R2178		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2179		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2501-03		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2504		ERX12SJ1R0	M.RESISTOR 1/2W 1	1	
R2505		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2506		ERJ6GMYG562	CHIP 1/10W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2518		ERJ6GMYJ330	CHIP 1/10W 33	1	
R2901-03		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2906		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R2907		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R3009		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R3010		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R3011		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3018		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R3019		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3022,23		ERJ6GMYJ821	CHIP 1/10W 820	2	
R3028		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3029		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R3030		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3042		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3054		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R3062		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R3063		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R3064		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R3065		ERJ6GMYJ561	CHIP 1/10W 560	1	
R3066		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3067		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R3068		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R3069		ERJ6GMYJ151	CHIP 1/10W 150	1	
R3070		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R3071		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R3072		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R3073		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3074		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R3075		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R3076		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R3077		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R3081		ERJ6GMYJ273	CHIP 1/10W 27K	1	
R3084		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3085		ERJ6GMYJ221	CHIP 1/10W 220	1	
R3801,02		ERDS2TJ124	C.RESISTOR 1/4W 120K	2	
R3803		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R3804		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R3805		ERG1ANJ820	M.RESISTOR 1W 82	1	
R3806		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R3807		ERDS2TJ473	C.RESISTOR 1/4W 47K	1	
R3808		ERDS2TJ753	C.RESISTOR 1/4W 75K	1	
R3809		ERDS2TJ183	C.RESISTOR 1/4W 18K	1	
R3810,11		ERDS2TJ474	C.RESISTOR 1/4W 470K	2	
R3812		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R3813		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3814-16		ERDS2TJ750	C.RESISTOR 1/4W 75	3	
R3817		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R3818		ERDS2TJ183	C.RESISTOR 1/4W 18K	1	
R3819		ERDS2TJ750	C.RESISTOR 1/4W 75	1	
R3820		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R3821,22		ERDS2TJ242	C.RESISTOR 1/4W 2.4K	2	
R3824		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3825		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R3826		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R3827		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R4001		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R4002		ERJ6GMYJ100	CHIP 1/10W 10	1	
R4003		ERJ6GMYJ203	CHIP 1/10W 2K	1	
R4004		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4005		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R4006		ERJ6GMYJ151	CHIP 1/10W 150	1	
R4007		ERJ6GMYJ221	CHIP 1/10W 220	1	
R4008		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R4009		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R4010		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R4012		ERJ6GMYJ331	CHIP 1/10W 330	1	
R4013		ERJ6GMYJ334	CHIP 1/10W 330K	1	
R4014		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R4015		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R4016		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R4017		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R4018		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R4019		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4020		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R4021		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4022		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R4023		ERJ6GMYG473	CHIP 1/10W 47K	1	
R4024,25		ERJ6GMYG104	CHIP 1/10W 100K	2	
R4051		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R4052		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R4054		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R4055		ERJ6GMYJ681	CHIP 1/10W 680	1	
R6001		ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R6002		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R6006		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6007		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R6008		ERJ6GMYJ181	CHIP 1/10W 180	1	
R6009		ERJ6GMYJ561	CHIP 1/10W 560	1	
R6010		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R6011		ERJ6GMYJ221	CHIP 1/10W 220	1	
R6014		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R6017		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6023		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R6024		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6027		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6028		ERJ6GMYJ184	CHIP 1/10W 180K	1	
R6029		ERJ6GMYJ561	CHIP 1/10W 560	1	
R6030,31		ERJ6GMYJ153	CHIP 1/10W 15K	2	
R6032		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6033,34		ERJ6GMYJ333	CHIP 1/10W 33K	2	
R6035-37		ERJ6GMYJ101	CHIP 1/10W 100	3	
R6038		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R6041		ERJ6GMYJ391	CHIP 1/10W 390	1	
R6046		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R6050		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6051		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6060		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R6067		ERJ6GMYJ101	CHIP 1/10W 100	1	
R6068		ERDS1TJ332	C.RESISTOR 1/2W 3.3K	1	
R6069		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6070		ERJ6GMYJ471	CHIP 1/10W 470	1	
R6071		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R6072		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6073		ERJ6GMYJ131	CHIP 1/10W 130	1	
R6074		ERJ6GMYJ221	CHIP 1/10W 220	1	
R6075		ERG3SJ220	M.RESISTOR 3W 22	1	
R6079		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6083		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R6084,85		ERJ6GMYJ561	CHIP 1/10W 560	2	
R6087-89		ERJ6GMYJ272	CHIP 1/10W 2.7K	3	
R6090		ERJ6GMYJ821	CHIP 1/10W 820	1	
R6091		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6093		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R6095		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R6096		ERJ6GMYJ681	CHIP 1/10W 680	1	
R6098		ERJ6GMYJ101	CHIP 1/10W 100	1	
R6099		ERJ6GMYJ201	CHIP 1/10W 200	1	
R7551,52		ERJ6GMYJ473	CHIP 1/10W 47K	2	
R7553		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R7554		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R7555		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7556		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7557		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7558		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R7561,62		ERJ6GMYJ473	CHIP 1/10W 47K	2	
R7563		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R7564		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R7565		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7566		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R7567		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R7568		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R7577		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7578		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R7583		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7595		ERJ6GMYJ181	CHIP 1/10W 180	1	
R7597		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R7598		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R7598		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R7803,04		ERDS2TJ103	C.RESISTOR 1/4W 10K	2	
R7809		ERDS2TJ683	C.RESISTOR 1/4W 68K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7810		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R7811		ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
R7812		ERDS2TJ152	C.RESISTOR 1/4W 1.5K	1	
R7813-15		ERDS2TJ102	C.RESISTOR 1/4W 1K	3	
R7816		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R7817		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7818		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7851		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7860		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
			SWITCH		
SW3801		VSS0226	SWITCH	1	
			TRANSFORMERS		
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A1	TRANSFORMER	1	
T710		EULBEF023	TRANSFORMER	1	
T711		EIS5EC004A	TRANSFORMER	1	
T851		ELM7Q207A	COIL	1	
T4001		EIQ7QF014Q	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR302		EVN3ACA00B14	V.RESISTOR 10K	1	
VR701,02		EVM4LGA00B23	V.RESISTOR 2K	2	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR751		EVNDRAA00B53	V.RESISTOR 5K	1	
VR803		EVNDRAA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2002		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2010		EVL51MA00B25	V.RESISTOR 200K	1	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR3012		EVNDRAA00B52	V.RESISTOR 500	1	
VR3020		EVN38CA00B23	V.RESISTOR 2K	1	
VR4001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X710		EFCH38MSP1	SAW FILTER	1	
X711		EFCS5R5MW5	FILTER	1	
X712		EFCS5R5MS5	FILTER	1	
X715		ELB5A043	FILTER	1	
X716		EFCA31R90M1	CRYSTAL OSCILLATOR	1	
X717		ELB5A064	CRYSTAL OSCILLATOR	1	
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X3001		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0258	CRYSTAL OSCILLATOR	1	
X7504		VSQ0565	SENSOR	1	
X7801		VSX0173	CRYSTAL OSCILLATOR	1	
X7851		EFOA4R0M03C2	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VSC1068	HEAT SINK	1	(FOR IC6003)
		VWJ0228	FLEXIBLE WIRE 13P	1	(P7502-P7401)
		VEJ0632	REAR JACK	1	
		VJF0215	BINDER	1	
		VSC1689	HEAT SINK	1	(FOR IC2501)
		VMC0075	HEAT SINK SPRING	1	(FOR IC2501)
		VMZ1130	HEAT SINK COVER	1	
		VJR0160	PACK PIN 6P	1	(FOR LUMI&CHRO PACK)
		VJR0130	PACK PIN 12P	1	(FOR LUMI&CHRO PACK)
		VJR0163	PACK PIN 9P	1	(FOR LUMI&CHRO PACK)
		VJR0275	PACK PIN 9P	1	(FOR TV DEMODU. PACK)
		VJR0406	PACK PIN 5P	2	(FOR TV DEMODU. PACK)
		VSC2232	SHIELD CASE (TOP)	1	(FOR TV DEMODU. PACK)
		VSC2233	SHIELD CASE (MAIN)	1	(FOR TV DEMODU. PACK)
		VSC2396	SHIELD CASE (BOTTOM)	1	(FOR TV DEMODU. PACK)
		VJS1469	21PIN CONNECTOR	1	
		ENC87966	RF CONVERTER	1	<!>
		ENV57816F1	TUNER	1	<!>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP03493G	MAIN C.B.A.		NV-G40B <!> (NLA)
			CAPACITORS		
C301		ECEA1EKN2R2	E.CAPACITOR 25V 2.2U	1	
C302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C303		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C304		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C305		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C306		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C310		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C311,12		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C313		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C314		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C315		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C317		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C319		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C320		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C321		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C322		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C324		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C325,26		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C327,28		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C329		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C331		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C332		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C333		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C335		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C336		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C337		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C338		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C339		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C340		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C349		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C351		ECCF1H220JC	C.CAPACITOR 50V 22P	1	
C352		ECQB1H562JZ	F.CAPACITOR 50V 5600P	1	
C353		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C360		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C701,02		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C706		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C707		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C715-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C721		ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C732		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C735		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C736		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C737		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUM1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270RSN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUM1H680JPN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C747		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C748		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C760		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C781		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C782		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C801		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C814		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C815		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C816		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C817		ECQV1H124JZ	P.CAPACITOR 50V 0.12U	1	
C818		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C819		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C820		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C821		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C823		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C824		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C825		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C826		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C827		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C828		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C829		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C831,32		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C1101		ECEA1EK100	E.CAPACITOR 25V 10U	1	
C2022		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2023		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2024		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C2026		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C2027		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2101		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2102		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2103		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2104		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2105		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C2106		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2107		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2108		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2109		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2110		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2112		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2113		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2114		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2115		ECEA1HKNR33	E.CAPACITOR 50V 0.33U	1	
C2116		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2117		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2118		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2119		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C2120		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2121		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2122		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2124,25		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C2126		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2127		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2129		ECQV1H394JZ	P.CAPACITOR 50V 0.39U	1	
C2130		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2131		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2132		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2133		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2134		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2135		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2137		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2138		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2139		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2140		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2141		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2142,43		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2144		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C2145		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2146		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2148		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2150		VCYD1E223KR	S.CAPACITOR 25V 0.022U	1	
C2151		ECKF1H332KB	C.CAPACITOR 50V 3300P	1	
C2153		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2154		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C2155		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2158		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2172		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C2173		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2183		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2187		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2501-03		ECQB1H333JH	P.CAPACITOR 50V 0.033U	3	
C2504-06		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2507		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C2508		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2511		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2512-14		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	3	
C2517		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C2519		ECEA25Z47	E.CAPACITOR 25V 4.7U	1	
C2901		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2902-04		ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	3	
C2905		ECQB1H473JH	P.CAPACITOR 50V 0.047U	1	
C2906		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2907		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2908-10		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	3	
C2911		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2912		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3001		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3003,04		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3007		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3010		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3011		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3012		ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C3013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3014		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C3015		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3016		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3019		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3051		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3053		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C3054		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3055		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C3056		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3057		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3058		ECQB1H392JH	P.CAPACITOR 50V 3900P	1	
C3059		ECQP1562JZ	P.CAPACITOR 100V 5600P	1	
C3060		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3061		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C3062,63		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C3064		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3067,68		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3070		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3074		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4001		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C4002		ECEA16Z33	E.CAPACITOR 16V 33U	1	
C4003		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C4004		ECQP1332JZ	P.CAPACITOR 100V 3300P	1	
C4005		ECCD2H121K	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4011		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C4015		ECEA1CKL100	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA16M10	E.CAPACITOR 16V 10U	1	
C4018		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C4022		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4023		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4032		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4039		VCYD1E103KR	S.CAPACITOR 25V 0.01U	1	
C6001		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6002		VCYD1C103MR1	S.CAPACITOR 16V 0.01U	1	
C6003		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6006		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6007		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6013		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C6017-19		ECEA0JK470	E.CAPACITOR 6.3V 47U	3	
C6020		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6023		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6024-26		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	3	
C6027		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7551		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7552		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7553		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7554		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7555,56		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7557		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7558		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7559		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7560		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7564		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7565		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7569		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7571		EECS5R5V473	E.CAPACITOR 5.5V 0.047	1	
C7590		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C7591		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
			DIODES		
D301		MA4091M	DIODE	1	
D710		MA3100L	DIODE	1	
D712		MA28W	DIODE	1	
D1101,02		MA165	DIODE	2	
D2007		MA165	DIODE	1	
D2014		MA165	DIODE	1	
D2101-05		MA165	DIODE	5	
D3008,09		MA165	DIODE	2	
D4001		MA165	DIODE	1	
D4050		MA165	DIODE	1	
D6001		ERA15-01	DIODE	1	
D6002		MA165	DIODE	1	
D6004		MA165	DIODE	1	
D6017		ERA15-01	DIODE	1	
D6019		MA4150M	DIODE	1	
D6023,24		MA165	DIODE	2	
D6028,29		MA165	DIODE	2	
D6030		MA4056L	DIODE	1	
D6032		MA165	DIODE	1	
			DELAY LINE		
DL802		VLD0148	DELAY LINE	1	
			FILTERS		
FL301		ELB4M022	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0567	FILTER	1	
FL801		VLF0299	FILTER	1	
			ICS		
IC301		VEFH03D	HIC	1	
IC303		MSM6965-3RS	IC	1	
IC701		M51366SP	IC	1	
IC801		VEFH04A	HIC	1	
IC2101		UPD6160AA607	IC	1	
IC2102		UPD6161CA604	IC	1	
IC2103		AN6562	IC	1	
IC2501		BA6432S	IC	1	
IC2901		AN3814K	IC	1	
IC3001		BA7004	IC	1	
IC3002		AN5421N	IC	1	
IC4001		BA7766AS	IC	1	
IC6001		MN15362VNK	IC	1	
IC6002		AN6914	IC	1	
IC6003		MN4510B	IC	1	
IC6004		MN12821R	IC	1	
IC7551		AN5043	IC	1	
IC7552		AN6913	IC	1	
IC7553		MN4066B	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			COILS		
L301		VLQEL05F101K	COIL 100UH	1	
L302		VLQEL05F220K	COIL 22UH	1	
L303,04		VLQEL05F101K	COIL 100UH	2	
L306		VLQEL05F101K	COIL 100UH	1	
L307		VLQEL05F151K	COIL 150UH	1	
L308		VLQEL05F270K	COIL 27UH	1	
L309,10		VLQEL05F101K	COIL 100UH	2	
L311		VLQEL05F2R2K	COIL 2.2UH	1	
L702		ELESP680KA	COIL 68UH	1	
L711		VLQ0305J1R2	COIL 1.2UH	1	
L712		VLQ0305JR82	COIL 0.82UH	1	
L713		VLQ0305JR56	COIL 0.56UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP330KA	COIL 33H	1	
L804		VLQEL05F150K	COIL 15UH	1	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F681K	COIL 680UH	1	
L808		VLQEL05F470K	COIL 47UH	1	
L809		VLQEL05F331K	COIL 330UH	1	
L810		VLQEL05F101K	COIL 100UH	1	
L811		VLQEL05F470K	COIL 47UH	1	
L812		VLQEL05F681K	COIL 680UH	1	
L2501		VLQEL05F102K	COIL 1000UH	1	
L2502		VLP0074	COIL	1	
L3001-03		VLQEL05F101K	COIL 100UH	3	
L3005		VLQEL05F120K	COIL 12UH	1	
L3006		VLQEL05F5R6K	COIL 5.6UH	1	
L3007		VLQEL05F101K	COIL 100UH	1	
L3008		VLQEL05F3R3K	COIL 3.3UH	1	
L3012		VLQEL05F101K	COIL 100UH	1	
L4001		VLQEL07F822J	COIL 8200UH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L7551		VLQEL05F680K	COIL 68UH	1	
			CONNECTORS		
P006		VJS1902	CONNECTOR (FEMALE)	1	
P501		VJS1236T	CONNECTOR (FEMALE)	1	
P1001		VJF0171T	CONNECTOR	1	
P1101		VJF0171R	CONNECTOR	1	
P1101		VJP1393T	CONNECTOR(MALE) 13P	1	
P2001		VJP1235T	CONNECTOR(MALE) 8P	1	
P2001		VJS1235T	CONNECTOR (FEMALE)	1	
P2002		VJP1932T	CONNECTOR (MALE)	1	
P2002		VJS1932	CONNECTOR (FEMALE)	1	
P2901		VJS1237T	CONNECTOR	1	
P3001		VJP1236T	CONNECTOR(MALE) 9P	1	
P3001		VJS1236T	CONNECTOR (FEMALE)	1	
P4001		VJP1233T	CONNECTOR(MALE) 6P	1	
P6001		VJS2157W	CONNECTOR (FEMALE)	1	
P6002		VJS2149W	CONNECTOR (FEMALE)	1	
P6003		VJS2152W	CONNECTOR (FEMALE)	1	
P7401		VJS1475	CONNECTOR(FEMALE)	1	
P7402		VJS2157W	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q301		2SB709	TRANSISTOR CHIP	1	
Q302,03		2SC2295	TRANSISTOR CHIP	2	(B,C)
Q304		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q703		2SD601	TRANSISTOR	1	(S,T)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR	1	
Q714		2SD601	TRANSISTOR CHIP	1	
Q771		2SD601	TRANSISTOR CHIP	1	
Q804		2SB709	TRANSISTOR CHIP	1	
Q2001		2SB709	TRANSISTOR CHIP	1	
Q2002-04		2SD601	TRANSISTOR CHIP	3	
Q2006		2SD1330	TRANSISTOR	1	(S,T)
Q2101,02		2SD601	TRANSISTOR CHIP	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q2108		2SD601	TRANSISTOR CHIP	1	
Q2111,12		2SD601	TRANSISTOR CHIP	2	
Q3002		2SC2295	TRANSISTOR	1	
Q3004		2SB709	TRANSISTOR CHIP	1	
Q3006		2SC2295	TRANSISTOR	1	
Q3007		2SB641	TRANSISTOR	1	
Q3013		2SD601	TRANSISTOR CHIP	1	
Q4001		2SD602	TRANSISTOR	1	(R)
Q6006		2SB641	TRANSISTOR	1	
Q6007		2SB643	TRANSISTOR	1	
Q6009		2SB643	TRANSISTOR	1	(R,S)
Q6016		2SD1275	TRANSISTOR	1	(P,Q)
Q6017		2SD893	TRANSISTOR	1	
Q6018		2SD973	TRANSISTOR	1	(S)
Q6019		2SD638	TRANSISTOR	1	
Q6020		2SD973	TRANSISTOR	1	(S)
			COMBINATION PARTS		
QR701,02		UN2213	TRANSISTOR-RESISTOR	2	
QR713		UN2211	TRANSISTOR-RESISTOR	1	
QR1101		UN2213	TRANSISTOR-RESISTOR	1	
QR2002		UN2212	TRANSISTOR-RESISTOR	1	
QR2007		UN2213	TRANSISTOR-RESISTOR	1	
QR2101,02		UN2113	TRANSISTOR-RESISTOR	2	
QR2104		UN2110	TRANSISTOR-RESISTOR	1	
QR2105		UN2117	TRANSISTOR-RESISTOR	1	
QR2106		UN2115	TRANSISTOR-RESISTOR	1	
QR3004		UN2111	TRANSISTOR-RESISTOR	1	
QR6001		UN2212	TRANSISTOR-RESISTOR	1	
QR6005		UN2213	TRANSISTOR-RESISTOR	1	
QR6006		UN2111	TRANSISTOR-RESISTOR	1	
QR6008		UN2119	TRANSISTOR-RESISTOR	1	
QR6011		UN2212	TRANSISTOR-RESISTOR	1	
QR6012		UN2113	TRANSISTOR-RESISTOR	1	
QR7554		UN2213	TRANSISTOR-RESISTOR	1	
QR7561		UN2211	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R301		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R302		ERJ6GMYJ391	CHIP 1/10W 390	1	
R303		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R304		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R305		ERJ6GMYJ824	CHIP 1/10W 820K	1	
R306		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R307		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R308		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R309		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R310		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R311		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R312		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R316		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R317		ERJ6GMYJ471	CHIP 1/10W 470	1	
R325		ERJ6GMYJ151	CHIP 1/10W 150	1	
R326		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R327		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R328		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R329		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R330		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R331		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R332		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R334,35		ERJ6GMYJ102	CHIP 1/10W 1K	2	
R338		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R339		ERJ6GMYJ101	CHIP 1/10W 100	1	
R707		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R712		ERJ6GEYJ682	CHIP 1/10W 6.8K	1	
R713		ERJ6GEYJ681	CHIP 1/10W 680	1	
R714		ERD2FCG330	C.RESISTOR 2W 33	1	
R715		ERJ6GEYJ271	CHIP 1/10W 270	1	
R716		ERJ6GEYJ272	CHIP 1/10W 2.7K	1	
R717		ERJ6GEYJ332	CHIP 1/10W 3.3K	1	
R718		ERJ6GEYJ754	CHIP 1/10W 750K	1	
R719		ERJ6GEYJ682	CHIP 1/10W 6.8K	1	
R720		ERJ6GEYJ822	CHIP 1/10W 8.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R721		ERJ6GEYJ332	CHIP 1/10W 3.3K	1	
R723		ERJ6GEYJ183	CHIP 1/10W 180K	1	
R724		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R725		ERJ6GEYJ182	CHIP 1/10W 1.8K	1	
R726		ERJ6GEYJ472	CHIP 1/10W 4.7K	1	
R727		ERJ6GEYJ471	CHIP 1/10W 470	1	
R728		VRE0040E471	W.RESISTOR 470	1	
R729,30		ERJ6GEYJ331	CHIP 1/10W 330	2	
R737		ERJ6GEYJ274	CHIP 1/10W 270K	1	
R738		ERJ6GEYJ334	CHIP 1/10W 330K	1	
R739		ERJ6GEYJ681	CHIP 1/10W 680	1	
R740		ERJ6GEYJ473	CHIP 1/10W 47K	1	
R741,42		ERJ6GEYJ272	CHIP 1/10W 2.7K	2	
R743		ERJ6GEYJ470	CHIP 1/10W 47	1	
R744		ERJ6GEYJ821	CHIP 1/10W 820	1	
R745		ERJ6GEYJ331	CHIP 1/10W 330	1	
R746		VRE0040E181	W.RESISTOR 180	1	
R750		ERJ6GEYJ182	CHIP 1/10W 1.8K	1	
R757		ERJ6GEYJ222	CHIP 1/10W 2.2K	1	
R759		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R760		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R763		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R764		ERJ6GEYJ822	CHIP 1/10W 8.2K	1	
R772		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R773		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R781		ERJ6GEYJ681	CHIP 1/10W 680	1	
R782		ERJ6GEYJ471	CHIP 1/10W 470	1	
R792		ERJ6GEYJ120	CHIP 1/10W 12	1	
R815		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R816		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R818		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R819		ERJ6GMYJ182	CHIP 1/10W 1.8K	1	
R820		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R821,22		ERJ6GMYJ103	CHIP 1/10W 10K	2	
R823		ERJ6GMYJ271	CHIP 1/10W 270	1	
R824		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R825		ERJ6GMYJ182	CHIP 1/10W 1.8K	1	
R826		ERJ6GMYJ681	CHIP 1/10W 680	1	
R1101		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2007		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2008		ERJ6GMYG682	CHIP 1/10W 6.8K	1	
R2009		ERJ6GMYG512	CHIP 1/10W 5.1K	1	
R2010		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R2011		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2029		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2030		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2031		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R2032		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R2033		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2034		ERJ6GMYJ391	CHIP 1/10W 390	1	
R2037		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2038		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2046		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R2047,48		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2049		ERJ6GMYJ273	CHIP 1/10W 27K	1	
R2050		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2051		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2054		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2056		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R2101		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R2102		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R2103		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2104		ERJ6GMYJ221	CHIP 1/10W 220	1	
R2105		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2106		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R2107		ERJ6GMYJ101	CHIP 1/10W 100	1	
R2108		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2109		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R2110		ERJ6GMYJ274	CHIP 1/10W 270K	1	
R2111		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R2112,13		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2114		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R2115		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R2117		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2119		ERJ6GMYJ333	CHIP 1/10W 33K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2120		ERJ6GMYJ274	CHIP 1/10W 270K	1	
R2121		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2122,23		ERJ6GMYJ332	CHIP 1/10W 3.3K	2	
R2124		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2125		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2126		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2127		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2128		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R2129		ERJ6GMYJ221	CHIP 1/10W 220	1	
R2130,31		ERJ6GMYJ152	CHIP 1/10W 1.5K	2	
R2134		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2135		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2136,37		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2138		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R2139		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R2140		ERJ6GMYG333	CHIP 1/10W 33K	1	
R2141		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R2142		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2143		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2146		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2147		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R2148		ERJ6GMYG102	CHIP 1/10W 1K	1	
R2150		ERJ6GMYJ821	CHIP 1/10W 820	1	
R2153		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R2157		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R2158		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2159,60		ERJ6GMYJ223	CHIP 1/10W 22K	2	
R2161		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R2166,67		ERJ6GMYJ563	CHIP 1/10W 56K	2	
R2168,69		ERJ6GMYJ223	CHIP 1/10W 22K	2	
R2174		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2177		ERJ6GMYJ681	CHIP 1/10W 680	1	
R2178		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2179		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2501-03		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2504		ERX12SJ1R0	M.RESISTOR 1/2W 1	1	
R2505		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2506		ERJ6GMYG562	CHIP 1/10W 5.6K	1	
R2518		ERJ6GMYJ330	CHIP 1/10W 33	1	
R2901-03		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2906		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R2907		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R3009		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R3010		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R3011		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3018		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R3019		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3022,23		ERJ6GMYJ821	CHIP 1/10W 820	2	
R3025		ERJ6GMYJ101	CHIP 1/10W 100	1	
R3028		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3029		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R3030		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3034		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R3035		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3036		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R3040		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3042		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3050,51		ERJ6GMYJ750	CHIP 1/10W 75	2	
R3054		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R3062		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R3063		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R3064		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R3065		ERJ6GMYJ561	CHIP 1/10W 560	1	
R3066		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3067		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R3068		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R3069		ERJ6GMYJ151	CHIP 1/10W 150	1	
R3070		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R3071		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R3072		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R3073		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3074		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R3075		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R3076		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R3077		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3081		ERJ6GMYJ273	CHIP 1/10W 27K	1	
R3084		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3085		ERJ6GMYJ221	CHIP 1/10W 220	1	
R4001		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R4002		ERJ6GMYJ100	CHIP 1/10W 10	1	
R4003		ERJ6GMYJ203	CHIP 1/10W 2K	1	
R4004		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4005		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R4006		ERJ6GMYJ151	CHIP 1/10W 150	1	
R4007		ERJ6GMYJ221	CHIP 1/10W 220	1	
R4008		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R4009		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R4010		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R4012		ERJ6GMYJ331	CHIP 1/10W 330	1	
R4013		ERJ6GMYJ334	CHIP 1/10W 330K	1	
R4014		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R4015		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R4016		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R4017		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R4018		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R4019		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4020		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R4021		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4022		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R4023		ERJ6GMYG473	CHIP 1/10W 47K	1	
R4024,25		ERJ6GMYG104	CHIP 1/10W 100K	2	
R4051		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R4052		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R4054		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R4055		ERJ6GMYJ681	CHIP 1/10W 680	1	
R6001		ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R6002		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R6006		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6007		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R6008		ERJ6GMYJ181	CHIP 1/10W 180	1	
R6009		ERJ6GMYJ561	CHIP 1/10W 560	1	
R6010		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R6011		ERJ6GMYJ221	CHIP 1/10W 220	1	
R6014		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R6017		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6023		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R6024		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6027		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6028		ERJ6GMYJ184	CHIP 1/10W 180K	1	
R6029		ERJ6GMYJ561	CHIP 1/10W 560	1	
R6030,31		ERJ6GMYJ153	CHIP 1/10W 15K	2	
R6032		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6033,34		ERJ6GMYJ333	CHIP 1/10W 33K	2	
R6035-37		ERJ6GMYJ101	CHIP 1/10W 100	3	
R6038		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R6041		ERJ6GMYJ391	CHIP 1/10W 390	1	
R6042		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6045		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6046		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R6050		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6051		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6060		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R6067		ERJ6GMYJ101	CHIP 1/10W 100	1	
R6068		ERDS1TJ332	C.RESISTOR 1/2W 3.3K	1	
R6069		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6070		ERJ6GMYJ471	CHIP 1/10W 470	1	
R6071		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R6072		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6073		ERJ6GMYJ131	CHIP 1/10W 130	1	
R6074		ERJ6GMYJ221	CHIP 1/10W 220	1	
R6075		ERG3SJ220	M.RESISTOR 3W 22	1	
R6079,80		ERJ6GMYJ103	CHIP 1/10W 10K	2	
R6083		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R6084,85		ERJ6GMYJ561	CHIP 1/10W 560	2	
R6087-89		ERJ6GMYJ272	CHIP 1/10W 2.7K	3	
R6090		ERJ6GMYJ821	CHIP 1/10W 820	1	
R6091		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6093		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R6095		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R6096		ERJ6GMYJ681	CHIP 1/10W 680	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6098		ERJ6GMYJ101	CHIP 1/10W 100	1	
R6099		ERJ6GMYJ201	CHIP 1/10W 200	1	
R7551,52		ERJ6GMYJ473	CHIP 1/10W 47K	2	
R7553		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R7554		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R7555		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7556		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7557		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7558		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R7561,62		ERJ6GMYJ473	CHIP 1/10W 47K	2	
R7563		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R7564		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R7565		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7566		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R7567		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R7568		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R7577		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7578		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R7583		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R7595		ERJ6GMYJ181	CHIP 1/10W 180	1	
R7597		ERJ6GMYJ102	CHIP 1/10W 1K	1	
			TRANSFORMERS		
T703		EIV5EC005A	TRANSFORMER	1	
T704		EIV5EC007A	TRANSFORMER	1	
T711		EIS5EC008A	TRANSFORMER	1	
T4001		EIQ7QF014Q	TRANSFORMER	1	
			VARIABLE RESISITORS		
VR302		EVN3ACA00B14	V.RESISTOR 10K	1	
VR701		EVNDRAA00B23	V.RESISTOR 2K	1	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR751		EVNDRAA00B53	V.RESISTOR 5K	1	
VR803		EVNDRAA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2002		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2010		EVL51MA00B25	V.RESISTOR 200K	1	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR3012		EVNDRAA00B52	V.RESISTOR 500	1	
VR3020		EVN38CA00B23	V.RESISTOR 2K	1	
VR4001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X710		EFCH39MSP3	CRYSTAL OSCILLATOR	1	
X711		EFCS6R0MW5	CRYSTAL OSCILLATOR	1	
X712		EFCS6R0MS5	CRYSTAL OSCILLATOR	1	
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X3001		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0258	CRYSTAL OSCILLATOR	1	
X7504		VSQ0565	SENSOR	1	
			MISCELLANEOUS		
		VSC1068	HEAT SINK	1	(FOR IC6003)
		VWJ0228	FLEXIBLE WIRE 13P	1	(P7502-P7401)
		VEJ0694	REAR JACK	1	
		VJF0215	BINDER	1	
		VSC1689	HEAT SINK	1	(FOR IC2501)
		VMC0075	HEAT SINK SPRING	1	(FOR IC2501)
		VMZ1130	HEAT SINK COVER	1	
		VJR0160	PACK PIN 6P	1	(FOR LUMI&CHRO PACK)
		VJR0130	PACK PIN 12P	1	(FOR LUMI&CHRO PACK)
		VJR0163	PACK PIN 9P	1	(FOR LUMI&CHRO PACK)
		VJR0275	PACK PIN 9P	1	(FOR TV DEMODU. PACK)
		VJR0406	PACK PIN 5P	2	(FOR TV DEMODU. PACK)
		VSC2232	SHIELD CASE (TOP)	1	(FOR TV DEMODU. PACK)
		VSC2233	SHIELD CASE (MAIN)	1	(FOR TV DEMODU. PACK)
		VSC2396	SHIELD CASE (BOTTOM)	1	(FOR TV DEMODU. PACK)
		ENC87962	RF CONVERTER	1	<!>
		ENV87806F2	TUNER	1	<!>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP03493C	MAIN C.B.A.		NV-G40A <!> (NLA)
			CAPACITORS		
C301		ECEA1EKN2R2	E.CAPACITOR 25V 2.2U	1	
C302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C303		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C304		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C305		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C306		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C310		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C311,12		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C313		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C314		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C315		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C317		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C319		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C320		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C321		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C322		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C324		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C325,26		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C327,28		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C329		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C331		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C332		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C333		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C335		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C336		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C337		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C338		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C339		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C340		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C349		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C351		ECCF1H220JC	C.CAPACITOR 50V 22P	1	
C352		ECQB1H562JZ	F.CAPACITOR 50V 5600P	1	
C353		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C360		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C701,02		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C705		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C706		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C707		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C708,09		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C715-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C721		ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C732		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C735		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C736		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C737		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUM1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270RSN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUM1H680JRN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C747		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C748		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C760		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C781		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C782		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C801		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C814		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C815		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C816		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C817		ECQV1H124JZ	P.CAPACITOR 50V 0.12U	1	
C818		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C819		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C820		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C821		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C823		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C824		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C825		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C826		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C827		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C828		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C829		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C831,32		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C1101		ECEA1EK100	E.CAPACITOR 25V 10U	1	
C2022		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2023		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2024		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C2026		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C2027		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2101		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2102		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2103		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2104		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2105		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C2106		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2107		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2108		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2109		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2110		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2112		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2113		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2114		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2115		ECEA1HKNR33	E.CAPACITOR 50V 0.33U	1	
C2116		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2117		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2118		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2119		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C2120		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2121		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2122		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2124,25		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C2126		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2127		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2129		ECQV1H394JZ	P.CAPACITOR 50V 0.39U	1	
C2130		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2131		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2132		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2133		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2134		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2135		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2137		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2138		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2139		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2140		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2141		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2142,43		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2144		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C2145		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2146		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2148		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2150		VCYD1E223KR	S.CAPACITOR 25V 0.022U	1	
C2151		ECKF1H332KB	C.CAPACITOR 50V 3300P	1	
C2153		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2154		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C2155		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2158		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2172		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C2173		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2183		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2187		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2501-03		ECQB1H333JH	P.CAPACITOR 50V 0.033U	3	
C2504-06		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2507		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C2508		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2511		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2512-14		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	3	
C2517		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C2519		ECEA25Z47	E.CAPACITOR 25V 4.7U	1	
C2901		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2902-04		ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	3	
C2905		ECQB1H473JH	P.CAPACITOR 50V 0.047U	1	
C2906		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2907		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2908-10		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	3	
C2911		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2912		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3001		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3003,04		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3007		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3010		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3011		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3012		ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C3013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3014		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C3015		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3016		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3019		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3051		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3053		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C3054		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3064		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3067,68		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3070		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4001		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C4002		ECEA16Z33	E.CAPACITOR 16V 33U	1	
C4003		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C4004		ECQP1332JZ	P.CAPACITOR 100V 3300P	1	
C4005		ECCD2H121K	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4011		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C4015		ECEA1CKL100	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA16M10	E.CAPACITOR 16V 10U	1	
C4018		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C4022		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4023		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4032		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4039		VCYD1E103KR	S.CAPACITOR 25V 0.01U	1	
C6001		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6002		VCYD1C103MR1	S.CAPACITOR 16V 0.01U	1	
C6003		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6006		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6007		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6013		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C6017-19		ECEA0JK470	E.CAPACITOR 6.3V 47U	3	
C6020		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6023		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6024-26		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	3	
C6027		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C6028		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6029		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7551		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7552		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7553		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7554		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7555,56		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7557		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7558		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7559		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7560		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7562,63		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7564		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7565		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7569		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7590		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C7591		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7592		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7593,94		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	2	
			DIODES		
D301		MA4091M	DIODE	1	
D710		MA3100L	DIODE	1	
D712		MA28W	DIODE	1	
D1101,02		MA165	DIODE	2	
D2007		MA165	DIODE	1	
D2014		MA165	DIODE	1	
D2101-05		MA165	DIODE	5	
D3008,09		MA165	DIODE	2	
D4001		MA165	DIODE	1	
D4050		MA165	DIODE	1	
D6001		ERA15-01	DIODE	1	
D6002		MA165	DIODE	1	
D6004,05		MA165	DIODE	2	
D6017		ERA15-01	DIODE	1	
D6019		MA4150M	DIODE	1	
D6023,24		MA165	DIODE	2	
D6028,29		MA165	DIODE	2	
D6030		MA4056L	DIODE	1	
D6032		MA165	DIODE	1	
D7554		MA165	DIODE	1	
D7555		MA29WB	DIODE	1	
			DELAY LINE		
DL802		VLD0148	DELAY LINE	1	
			FILTERS		
FL301		ELB4M022	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0567	FILTER	1	
FL801		VLF0299	FILTER	1	
FL3001		VLF0413	FILTER	1	
			ICS		
IC301		VEFH03D	HIC	1	
IC303		MSM6965-3RS	IC	1	
IC701		M51366SP	IC	1	
IC801		VEFH04A	HIC	1	
IC2101		UPD6160AA607	IC	1	
IC2102		UPD6161CA604	IC	1	
IC2103		AN6562	IC	1	
IC2501		BA6432S	IC	1	
IC2901		AN3814K	IC	1	
IC3001		BA7004	IC	1	
IC4001		BA7766AS	IC	1	
IC6001		MN1534VPC	IC	1	
IC6002		AN6914	IC	1	
IC6003		MN4510B	IC	1	
IC6004		MN12821R	IC	1	
IC7551		AN5043	IC	1	
			COILS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L301		VLQEL05F101K	COIL 100UH	1	
L302		VLQEL05F220K	COIL 22UH	1	
L303,04		VLQEL05F101K	COIL 100UH	2	
L306		VLQEL05F101K	COIL 100UH	1	
L307		VLQEL05F151K	COIL 150UH	1	
L308		VLQEL05F270K	COIL 27UH	1	
L309,10		VLQEL05F101K	COIL 100UH	2	
L311		VLQEL05F2R2K	COIL 2.2UH	1	
L701,02		ELESP680KA	COIL 68UH	2	
L712		VLQ0305JR82	COIL 0.82UH	1	
L713		VLQ0305JR56	COIL 0.56UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP680KA	COIL 68UH	1	
L804		VLQEL05F150K	COIL 15UH	1	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F681K	COIL 680UH	1	
L808		VLQEL05F470K	COIL 47UH	1	
L809		VLQEL05F331K	COIL 330UH	1	
L810		VLQEL05F101K	COIL 100UH	1	
L811		VLQEL05F470K	COIL 47UH	1	
L812		VLQEL05F681K	COIL 680UH	1	
L2501		VLQEL05F102K	COIL 1000UH	1	
L2502		VLP0074	COIL	1	
L3001-03		VLQEL05F101K	COIL 100UH	3	
L3005		VLQEL05F120K	COIL 12UH	1	
L3006		VLQEL05F5R6K	COIL 5.6UH	1	
L3007		VLQEL05F101K	COIL 100UH	1	
L3008		VLQEL05F3R3K	COIL 3.3UH	1	
L3012		VLQEL05F101K	COIL 100UH	1	
L3014		VLQEL05F470K	COIL 47UH	1	
L4001		VLQEL07F822J	COIL 8200UH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L7551		VLQEL05F680K	COIL 68UH	1	
			CONNECTORS		
P006		VJS1902	CONNECTOR (FEMALE)	1	
P501		VJS1236T	CONNECTOR (FEMALE)	1	
P1001		VJF0171T	CONNECTOR	1	
P1101		VJF0171R	CONNECTOR	1	
P1101		VJP1393T	CONNECTOR(MALE) 13P	1	
P2001		VJP1235T	CONNECTOR(MALE) 8P	1	
P2001		VJS1235T	CONNECTOR (FEMALE)	1	
P2002		VJP1932T	CONNECTOR (MALE)	1	
P2002		VJS1932	CONNECTOR (FEMALE)	1	
P2901		VJS1237T	CONNECTOR	1	
P3001		VJP1236T	CONNECTOR(MALE) 9P	1	
P3001		VJS1236T	CONNECTOR (FEMALE)	1	
P4001		VJP1233T	CONNECTOR(MALE) 6P	1	
P6001		VJS2157W	CONNECTOR (FEMALE)	1	
P6002		VJS2149W	CONNECTOR (FEMALE)	1	
P6003		VJS2152W	CONNECTOR (FEMALE)	1	
P7401		VJS1475	CONNECTOR(FEMALE)	1	
P7402		VJS2157W	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q301		2SB709	TRANSISTOR CHIP	1	
Q302,03		2SC2295	TRANSISTOR CHIP	2	(B,C)
Q304		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q703		2SD601	TRANSISTOR	1	(S,T)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR	1	
Q714		2SD601	TRANSISTOR CHIP	1	
Q771		2SD601	TRANSISTOR CHIP	1	
Q804		2SB709	TRANSISTOR CHIP	1	
Q2001		2SB709	TRANSISTOR CHIP	1	
Q2002-04		2SD601	TRANSISTOR CHIP	3	
Q2006		2SD1330	TRANSISTOR	1	(S,T)
Q2101,02		2SD601	TRANSISTOR CHIP	2	
Q2108		2SD601	TRANSISTOR CHIP	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q2111,12		2SD601	TRANSISTOR CHIP	2	
Q3002		2SC2295	TRANSISTOR	1	
Q3004		2SB709	TRANSISTOR CHIP	1	
Q3006		2SC2295	TRANSISTOR	1	
Q3007		2SB641	TRANSISTOR	1	
Q4001		2SD602	TRANSISTOR	1	(R)
Q6006		2SB641	TRANSISTOR	1	
Q6007		2SB643	TRANSISTOR	1	
Q6009		2SB643	TRANSISTOR	1	(R,S)
Q6016		2SD1275	TRANSISTOR	1	(P,Q)
Q6017		2SD893	TRANSISTOR	1	
Q6018		2SD973	TRANSISTOR	1	(S)
Q6019		2SD638	TRANSISTOR	1	
Q6020		2SD973	TRANSISTOR	1	(S)
			COMBINATION PARTS		
QR701,02		UN2213	TRANSISTOR-RESISTOR	2	
QR711,12		UN2212	TRANSISTOR-RESISTOR	2	
QR713		UN2211	TRANSISTOR-RESISTOR	1	
QR1101		UN2213	TRANSISTOR-RESISTOR	1	
QR2002		UN2212	TRANSISTOR-RESISTOR	1	
QR2007		UN2213	TRANSISTOR-RESISTOR	1	
QR2101,02		UN2113	TRANSISTOR-RESISTOR	2	
QR2104		UN2110	TRANSISTOR-RESISTOR	1	
QR2105		UN2117	TRANSISTOR-RESISTOR	1	
QR2106		UN2115	TRANSISTOR-RESISTOR	1	
QR3004		UN2111	TRANSISTOR-RESISTOR	1	
QR6001		UN2212	TRANSISTOR-RESISTOR	1	
QR6005		UN2213	TRANSISTOR-RESISTOR	1	
QR6006		UN2111	TRANSISTOR-RESISTOR	1	
QR6008		UN2119	TRANSISTOR-RESISTOR	1	
QR6011		UN2212	TRANSISTOR-RESISTOR	1	
QR6012		UN2113	TRANSISTOR-RESISTOR	1	
QR7561		UN2211	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R301		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R302		ERJ6GMYJ391	CHIP 1/10W 390	1	
R303		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R304		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R305		ERJ6GMYJ824	CHIP 1/10W 820K	1	
R306		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R307		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R308		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R309		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R310		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R311		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R312		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R316		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R317		ERJ6GMYJ471	CHIP 1/10W 470	1	
R325		ERJ6GMYJ151	CHIP 1/10W 150	1	
R326		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R327		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R328		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R329		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R330		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R331		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R332		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R334,35		ERJ6GMYJ102	CHIP 1/10W 1K	2	
R338		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R339		ERJ6GMYJ101	CHIP 1/10W 100	1	
R707		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R712		ERJ6GEYJ682	CHIP 1/10W 6.8K	1	
R713		ERJ6GEYJ681	CHIP 1/10W 680	1	
R714		ERD2FCG330	C.RESISTOR 2W 33	1	
R715		ERJ6GEYJ271	CHIP 1/10W 270	1	
R716		ERJ6GEYJ272	CHIP 1/10W 2.7K	1	
R717		ERJ6GEYJ332	CHIP 1/10W 3.3K	1	
R718		ERJ6GEYJ754	CHIP 1/10W 750K	1	
R719		ERJ6GEYJ682	CHIP 1/10W 6.8K	1	
R720		ERJ6GEYJ822	CHIP 1/10W 8.2K	1	
R721		ERJ6GEYJ392	CHIP 1/10W 3.9K	1	
R722		ERJ6GEYJ432	CHIP 1/10W 4.3K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R723		ERJ6GEYJ183	CHIP 1/10W 180K	1	
R724		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R725		ERJ6GEYJ182	CHIP 1/10W 1.8K	1	
R726		ERJ6GEYJ472	CHIP 1/10W 4.7K	1	
R727		ERJ6GEYJ471	CHIP 1/10W 470	1	
R728		VREO040E471	W.RESISTOR 470	1	
R729,30		ERJ6GEYJ331	CHIP 1/10W 330	2	
R737		ERJ6GEYJ274	CHIP 1/10W 270K	1	
R738		ERJ6GEYJ334	CHIP 1/10W 330K	1	
R739		ERJ6GEYJ681	CHIP 1/10W 680	1	
R740		ERJ6GEYJ473	CHIP 1/10W 47K	1	
R741,42		ERJ6GEYJ272	CHIP 1/10W 2.7K	2	
R743		ERJ6GEYJ470	CHIP 1/10W 47	1	
R744		ERJ6GEYJ821	CHIP 1/10W 820	1	
R745		ERJ6GEYJ331	CHIP 1/10W 330	1	
R746		VREO040E151	W.RESISTOR 150	1	
R750		ERJ6GEYJ182	CHIP 1/10W 1.8K	1	
R757		ERJ6GEYJ222	CHIP 1/10W 2.2K	1	
R759		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R760		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R763		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R764		ERJ6GEYJ822	CHIP 1/10W 8.2K	1	
R772		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R773		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R781		ERJ6GEYJ271	CHIP 1/10W 270	1	
R782		ERJ6GEYJ471	CHIP 1/10W 470	1	
R791		ERJ6GEYJ750	CHIP 1/10W 75	1	
R792		ERJ6GEYJ120	CHIP 1/10W 12	1	
R815		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R816		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R818		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R819		ERJ6GMYJ182	CHIP 1/10W 1.8K	1	
R820		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R821,22		ERJ6GMYJ103	CHIP 1/10W 10K	2	
R823		ERJ6GMYJ271	CHIP 1/10W 270	1	
R824		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R825		ERJ6GMYJ182	CHIP 1/10W 1.8K	1	
R826		ERJ6GMYJ681	CHIP 1/10W 680	1	
R1101		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2007		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2008		ERJ6GMYG682	CHIP 1/10W 6.8K	1	
R2009		ERJ6GMYG512	CHIP 1/10W 5.1K	1	
R2010		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R2011		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2029		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2030		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2031		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R2032		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R2033		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2034		ERJ6GMYJ391	CHIP 1/10W 390	1	
R2037		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2038		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2046		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R2047,48		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2049		ERJ6GMYJ273	CHIP 1/10W 27K	1	
R2050		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2051		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2054		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2056		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R2101		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R2102		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R2103		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2104		ERJ6GMYJ221	CHIP 1/10W 220	1	
R2105		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2106		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R2107		ERJ6GMYJ101	CHIP 1/10W 100	1	
R2108		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2109		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R2110		ERJ6GMYJ274	CHIP 1/10W 270K	1	
R2111		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R2112,13		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2114		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R2115		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R2117		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2119		ERJ6GMYJ333	CHIP 1/10W 33K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2120		ERJ6GMYJ274	CHIP 1/10W 270K	1	
R2121		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2122,23		ERJ6GMYJ332	CHIP 1/10W 3.3K	2	
R2124		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2125		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2126		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2127		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2128		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R2129		ERJ6GMYJ221	CHIP 1/10W 220	1	
R2130,31		ERJ6GMYJ152	CHIP 1/10W 1.5K	2	
R2134		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2135		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2136,37		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2138		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R2139		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R2140		ERJ6GMYG333	CHIP 1/10W 33K	1	
R2141		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R2142		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2143		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2146		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2147		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R2148		ERJ6GMYG102	CHIP 1/10W 1K	1	
R2150		ERJ6GMYJ821	CHIP 1/10W 820	1	
R2153		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R2157		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R2158		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2159,60		ERJ6GMYJ223	CHIP 1/10W 22K	2	
R2161		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R2166,67		ERJ6GMYJ563	CHIP 1/10W 56K	2	
R2168,69		ERJ6GMYJ223	CHIP 1/10W 22K	2	
R2174		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2177		ERJ6GMYJ681	CHIP 1/10W 680	1	
R2178		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2179		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2501-03		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2504		ERX12SJ1R0	M.RESISTOR 1/2W 1	1	
R2505		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2506		ERJ6GMYG562	CHIP 1/10W 5.6K	1	
R2518		ERJ6GMYJ330	CHIP 1/10W 33	1	
R2901-03		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2906		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R2907		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R3009		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R3010		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R3011		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3018		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R3019		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3022,23		ERJ6GMYJ821	CHIP 1/10W 820	2	
R3028		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3029		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R3030		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3034		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R3035		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3036		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R3037		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3040		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3042		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3051,52		ERJ6GMYJ750	CHIP 1/10W 75	2	
R3054		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R3062		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R3063		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R3064		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R3065		ERJ6GMYJ561	CHIP 1/10W 560	1	
R3084		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3085		ERJ6GMYJ221	CHIP 1/10W 220	1	
R4001		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R4002		ERJ6GMYJ100	CHIP 1/10W 10	1	
R4003		ERJ6GMYJ203	CHIP 1/10W 2K	1	
R4004		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4005		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R4006		ERJ6GMYJ151	CHIP 1/10W 150	1	
R4007		ERJ6GMYJ221	CHIP 1/10W 220	1	
R4008		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R4009		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R4010		ERJ6GMYJ683	CHIP 1/10W 68K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4012		ERJ6GMYJ331	CHIP 1/10W 330	1	
R4013		ERJ6GMYJ334	CHIP 1/10W 330K	1	
R4014		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R4015		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R4016		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R4017		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R4018		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R4019		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4020		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R4021		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4022		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R4023		ERJ6GMYG473	CHIP 1/10W 47K	1	
R4024,25		ERJ6GMYG104	CHIP 1/10W 100K	2	
R4051		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R4052		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R4054		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R4055		ERJ6GMYJ681	CHIP 1/10W 680	1	
R6001		ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R6002		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R6006		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6007		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R6008		ERJ6GMYJ181	CHIP 1/10W 180	1	
R6009		ERJ6GMYJ561	CHIP 1/10W 560	1	
R6010		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R6011		ERJ6GMYJ221	CHIP 1/10W 220	1	
R6014		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R6017		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6022		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6023		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R6024		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6025		ERJ6GMYJ824	CHIP 1/10W 820K	1	
R6026		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R6027		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6028		ERJ6GMYJ184	CHIP 1/10W 180K	1	
R6029		ERJ6GMYJ561	CHIP 1/10W 560	1	
R6030,31		ERJ6GMYJ153	CHIP 1/10W 15K	2	
R6032		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6033,34		ERJ6GMYJ333	CHIP 1/10W 33K	2	
R6035-37		ERJ6GMYJ101	CHIP 1/10W 100	3	
R6038		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R6041		ERJ6GMYJ391	CHIP 1/10W 390	1	
R6042		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6045		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6046		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R6050		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6051		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6060		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R6067		ERJ6GMYJ101	CHIP 1/10W 100	1	
R6068		ERDS1TJ332	C.RESISTOR 1/2W 3.3K	1	
R6069		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6070		ERJ6GMYJ471	CHIP 1/10W 470	1	
R6071		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R6072		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6073		ERJ6GMYJ131	CHIP 1/10W 130	1	
R6074		ERJ6GMYJ221	CHIP 1/10W 220	1	
R6075		ERG3SJ220	M.RESISTOR 3W 22	1	
R6079,80		ERJ6GMYJ103	CHIP 1/10W 10K	2	
R6083		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R6084,85		ERJ6GMYJ561	CHIP 1/10W 560	2	
R6087-89		ERJ6GMYJ272	CHIP 1/10W 2.7K	3	
R6090		ERJ6GMYJ821	CHIP 1/10W 820	1	
R6091		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6093		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R6095		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R6096		ERJ6GMYJ681	CHIP 1/10W 680	1	
R6098		ERJ6GMYJ101	CHIP 1/10W 100	1	
R6099		ERJ6GMYJ201	CHIP 1/10W 200	1	
R7551,52		ERJ6GMYJ473	CHIP 1/10W 47K	2	
R7553		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R7554		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R7555		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7556		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7557		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7569		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R7570		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7577		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7578		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R7583		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7597		ERJ6GMYJ102	CHIP 1/10W 1K	1	
			TRANSFORMERS		
T703		EIV5EC008A	TRANSFORMER	1	
T704		EIV5EC011A	TRANSFORMER	1	
T711		EIS5EC004A	TRANSFORMER	1	
T4001		EIQ7QF014Q	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR302		EVN3ACA00B14	V.RESISTOR 10K	1	
VR701,02		EVNDRAA00B23	V.RESISTOR 2K	2	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR751		EVNDRAA00B53	V.RESISTOR 5K	1	
VR803		EVNDRAA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2002		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2010		EVL51MA00B25	V.RESISTOR 200K	1	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR3012		EVNDRAA00B52	V.RESISTOR 500	1	
VR4001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X710		EFCH36MSP1	CRYSTAL OSCILLATOR	1	
X711		VLF0638	CRYSTAL OSCILLATOR	1	
X712		VLF0637	CRYSTAL OSCILLATOR	1	
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X3001		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0258	CRYSTAL OSCILLATOR	1	
X7504		VSQ0565	SENSOR	1	
			MISCELLANEOUS		
		VSC1068	HEAT SINK	1	(FOR IC6003)
		VWJ0228	FLEXIBLE WIRE 13P	1	(P7502-P7401)
		VEJ0635	REAR JACK	1	
		VJF0215	BINDER	1	
		VSC1689	HEAT SINK	1	(FOR IC2501)
		VMC0075	HEAT SINK SPRING	1	(FOR IC2501)
		VMZ1130	HEAT SINK COVER	1	
		VJR0160	PACK PIN 6P	1	(FOR LUMI&CHRO PACK)
		VJR0130	PACK PIN 12P	1	(FOR LUMI&CHRO PACK)
		VJR0163	PACK PIN 9P	1	(FOR LUMI&CHRO PACK)
		VJR0275	PACK PIN 9P	1	(FOR TV DEMODU. PACK)
		VJR0406	PACK PIN 5P	2	(FOR TV DEMODU. PACK)
		VSC2232	SHIELD CASE (TOP)	1	(FOR TV DEMODU. PACK)
		VSC2233	SHIELD CASE (MAIN)	1	(FOR TV DEMODU. PACK)
		VSC2396	SHIELD CASE (BOTTOM)	1	(FOR TV DEMODU. PACK)
		ENC87907	RF CONVERTER	1	<!>
		ENV77820F2	TUNER	1	<!>
	■	VEP03493D	MAIN C.B.A.		NV-G40EA <!> (NLA)
			CAPACITORS		
C301		ECEA1EKN2R2	E.CAPACITOR 25V 2.2U	1	
C302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C303		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C304		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C305		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C306		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C310		ECEA1CK100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C311,12		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C313		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C314		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C315		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C317		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C319		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C320		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C321		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C322		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C324		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C325,26		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C327,28		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C329		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C331		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C332		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C333		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C335		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C336		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C337		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C338		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C339		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C340		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C349		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C351		ECCF1H220JC	C.CAPACITOR 50V 22P	1	
C352		ECQB1H562JZ	F.CAPACITOR 50V 5600P	1	
C353		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C360		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C701,02		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C705		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C706		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C707		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C708,09		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C715-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C721		ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C732		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C735		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C736		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C737		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUM1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270RSN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUM1H680JPN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C747		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C748		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C760		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C781		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C782		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C801		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C814		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C815		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C816		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C817		ECQV1H124JZ	P.CAPACITOR 50V 0.12U	1	
C818		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C819		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C820		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C821		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C823		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C824		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C825		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C826		ECEA1AU221	E.CAPACITOR 10V 220U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C827		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C828		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C829		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C831,32		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C1101		ECEA1EK100	E.CAPACITOR 25V 10U	1	
C2022		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2023		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2024		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C2026		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C2027		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2101		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2102		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2103		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2104		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2105		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C2106		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2107		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2108		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2109		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2110		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2112		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2113		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2114		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2115		ECEA1HKNR33	E.CAPACITOR 50V 0.33U	1	
C2116		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2117		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2118		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2119		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C2120		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2121		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2122		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2124,25		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C2126		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2127		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2129		ECQV1H394JZ	P.CAPACITOR 50V 0.39U	1	
C2130		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2131		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2132		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2133		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2134		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2135		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2137		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2138		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2139		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2140		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2141		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2142,43		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2144		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C2145		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2146		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2148		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2149		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2150		VCYD1E223KR	S.CAPACITOR 25V 0.022U	1	
C2151		ECKF1H332KB	C.CAPACITOR 50V 3300P	1	
C2152		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2153		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2154		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C2155		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2157		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C2158		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2172		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C2173		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2183		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2185		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2187		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2190		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C2501-03		ECQB1H333JH	P.CAPACITOR 50V 0.033U	3	
C2504-06		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2507		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C2508		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2511		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2512-14		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	3	
C2517		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C2519		ECEA25Z47	E.CAPACITOR 25V 47U	1	
C2901		ECEA1CK100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2902-04		ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	3	
C2905		ECQB1H473JH	P.CAPACITOR 50V 0.047U	1	
C2906		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2907		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2908-10		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	3	
C2911		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2912		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3001		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3003,04		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3007		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3010		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3011		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3012		ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C3013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3014		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C3015		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3016		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3019		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3051		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3053		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C3054		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3064		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3067,68		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3070		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4001		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C4002		ECEA16Z33	E.CAPACITOR 16V 33U	1	
C4003		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C4004		ECQP1332JZ	P.CAPACITOR 100V 3300P	1	
C4005		ECCD2H121K	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4011		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C4015		ECEA1CKL100	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA16M10	E.CAPACITOR 16V 10U	1	
C4018		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C4022		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4023		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4032		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4039		VCYD1E103KR	S.CAPACITOR 25V 0.01U	1	
C6001		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6002		VCYD1C103MR1	S.CAPACITOR 16V 0.01U	1	
C6003		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6006		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6007		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6013		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C6017-19		ECEA0JK470	E.CAPACITOR 6.3V 47U	3	
C6020		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6023		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6024-26		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	3	
C6027		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C6028		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6029		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7551		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7552		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7553		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7554		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7555,56		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7557		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7558		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7559		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7560		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7562,63		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7564		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7565		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7569		ECEA1HKN010	E.CAPACITOR 50V 1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7590		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C7591		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7592		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7593,94		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	2	
C7595-97		ECUM1H101KN	C.CAPACITOR CH 50V 100P	3	
			DIODES		
D301		MA4091M	DIODE	1	
D710		MA3100L	DIODE	1	
D712		MA28W	DIODE	1	
D1101,02		MA165	DIODE	2	
D2007		MA165	DIODE	1	
D2014		MA165	DIODE	1	
D2101-05		MA165	DIODE	5	
D3008,09		MA165	DIODE	2	
D4001		MA165	DIODE	1	
D4050		MA165	DIODE	1	
D6001		ERA15-01	DIODE	1	
D6002		MA165	DIODE	1	
D6004,05		MA165	DIODE	2	
D6017		ERA15-01	DIODE	1	
D6019		MA4150M	DIODE	1	
D6023,24		MA165	DIODE	2	
D6028,29		MA165	DIODE	2	
D6030		MA4056L	DIODE	1	
D6032		MA165	DIODE	1	
D7554		MA165	DIODE	1	
D7555		MA29WB	DIODE	1	
			DELAY LINE		
DL802		VLD0148	DELAY LINE	1	
			FILTERS		
FL301		ELB4M022	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0567	FILTER	1	
FL801		VLF0299	FILTER	1	
FL3001		VLF0413	FILTER	1	
			ICS		
IC301		VEFH03D	HIC	1	
IC303		MSM6965-3RS	IC	1	
IC701		M51366SP	IC	1	
IC801		VEFH04A	HIC	1	
IC2101		UPD6160AA607	IC	1	
IC2102		UPD6161CA604	IC	1	
IC2103		AN6562	IC	1	
IC2501		BA6432S	IC	1	
IC2901		AN3814K	IC	1	
IC3001		BA7004	IC	1	
IC4001		BA7766AS	IC	1	
IC6001		MN1534VPC	IC	1	
IC6002		AN6914	IC	1	
IC6003		MN4510B	IC	1	
IC6004		MN12821R	IC	1	
IC7551		AN5043	IC	1	
			COILS		
L301		VLQEL05F101K	COIL 100UH	1	
L302		VLQEL05F220K	COIL 22UH	1	
L303,04		VLQEL05F101K	COIL 100UH	2	
L306		VLQEL05F101K	COIL 100UH	1	
L307		VLQEL05F151K	COIL 150UH	1	
L308		VLQEL05F270K	COIL 27UH	1	
L309,10		VLQEL05F101K	COIL 100UH	2	
L311		VLQEL05F2R2K	COIL 2.2UH	1	
L701,02		ELESP680KA	COIL 68UH	2	
L712		VLQ0305JR82	COIL 0.82UH	1	
L713		VLQ0305JR68	COIL 0.68UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L715		VLQ0213K680	COIL 68UH	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP680KA	COIL 68UH	1	
L804		VLQEL05F150K	COIL 15UH	1	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F681K	COIL 680UH	1	
L808		VLQEL05F470K	COIL 47UH	1	
L809		VLQEL05F331K	COIL 330UH	1	
L810		VLQEL05F101K	COIL 100UH	1	
L811		VLQEL05F470K	COIL 47UH	1	
L812		VLQEL05F681K	COIL 680UH	1	
L2102		VLQEL05F101K	COIL 100UH	1	
L2501		VLQEL05F102K	COIL 1000UH	1	
L2502		VLP0074	COIL	1	
L3001-03		VLQEL05F101K	COIL 100UH	3	
L3005		VLQEL05F120K	COIL 12UH	1	
L3006		VLQEL05F5R6K	COIL 5.6UH	1	
L3007		VLQEL05F101K	COIL 100UH	1	
L3008		VLQEL05F3R3K	COIL 3.3UH	1	
L3012		VLQEL05F101K	COIL 100UH	1	
L4001		VLQEL07F822J	COIL 8200UH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L7551		VLQEL05F680K	COIL 68UH	1	
L7552		VLQEL05F1R0K	COIL 1UH	1	
			CONNECTORS		
P006		VJS1902	CONNECTOR (FEMALE)	1	
P501		VJS1236T	CONNECTOR (FEMALE)	1	
P1001		VJF0171T	CONNECTOR	1	
P1101		VJF0171R	CONNECTOR	1	
P1101		VJP1393T	CONNECTOR(MALE) 13P	1	
P2001		VJP1235T	CONNECTOR(MALE) 8P	1	
P2001		VJS1235T	CONNECTOR (FEMALE)	1	
P2002		VJP1932T	CONNECTOR (MALE)	1	
P2002		VJS1932	CONNECTOR (FEMALE)	1	
P2901		VJS1237T	CONNECTOR	1	
P3001		VJP1236T	CONNECTOR(MALE) 9P	1	
P3001		VJS1236T	CONNECTOR (FEMALE)	1	
P4001		VJP1233T	CONNECTOR(MALE) 6P	1	
P6001		VJS2157W	CONNECTOR (FEMALE)	1	
P6002		VJS2149W	CONNECTOR (FEMALE)	1	
P6003		VJS2152W	CONNECTOR (FEMALE)	1	
P7401		VJS1475	CONNECTOR(FEMALE)	1	
P7402		VJS2157W	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q301		2SB709	TRANSISTOR CHIP	1	
Q302,03		2SC2295	TRANSISTOR CHIP	2	(B,C)
Q304		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q703		2SD601	TRANSISTOR	1	(S,T)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR	1	
Q714		2SD601	TRANSISTOR CHIP	1	
Q771		2SD601	TRANSISTOR CHIP	1	
Q804		2SB709	TRANSISTOR CHIP	1	
Q2001		2SB709	TRANSISTOR CHIP	1	
Q2002-04		2SD601	TRANSISTOR CHIP	3	
Q2006		2SD1330	TRANSISTOR	1	(S,T)
Q2101,02		2SD601	TRANSISTOR CHIP	2	
Q2107		2SC2206	TRANSISTOR	1	(B,C)
Q2108		2SD601	TRANSISTOR CHIP	1	
Q2111,12		2SD601	TRANSISTOR CHIP	2	
Q3002		2SC2295	TRANSISTOR	1	
Q3004		2SB709	TRANSISTOR CHIP	1	
Q3006		2SC2295	TRANSISTOR	1	
Q3007		2SB641	TRANSISTOR	1	
Q4001		2SD602	TRANSISTOR	1	(R)
Q6006		2SB641	TRANSISTOR	1	
Q6007		2SB643	TRANSISTOR	1	
Q6009		2SB643	TRANSISTOR	1	(R,S)
Q6016		2SD1275	TRANSISTOR	1	(P,Q)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q6017		2SD893	TRANSISTOR	1	
Q6018		2SD973	TRANSISTOR	1	(S)
Q6019		2SD638	TRANSISTOR	1	
Q6020		2SD973	TRANSISTOR	1	(S)
			COMBINATION PARTS		
QR701,02		UN2213	TRANSISTOR-RESISTOR	2	
QR711,12		UN2212	TRANSISTOR-RESISTOR	2	
QR713		UN2211	TRANSISTOR-RESISTOR	1	
QR1101		UN2213	TRANSISTOR-RESISTOR	1	
QR2002		UN2212	TRANSISTOR-RESISTOR	1	
QR2007		UN2213	TRANSISTOR-RESISTOR	1	
QR2101,02		UN2113	TRANSISTOR-RESISTOR	2	
QR2104		UN2110	TRANSISTOR-RESISTOR	1	
QR2105		UN2117	TRANSISTOR-RESISTOR	1	
QR2106		UN2115	TRANSISTOR-RESISTOR	1	
QR3004		UN2111	TRANSISTOR-RESISTOR	1	
QR6001		UN2212	TRANSISTOR-RESISTOR	1	
QR6005		UN2213	TRANSISTOR-RESISTOR	1	
QR6006		UN2111	TRANSISTOR-RESISTOR	1	
QR6008		UN2119	TRANSISTOR-RESISTOR	1	
QR6011		UN2212	TRANSISTOR-RESISTOR	1	
QR6012		UN2113	TRANSISTOR-RESISTOR	1	
QR7561		UN2211	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R301		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R302		ERJ6GMYJ391	CHIP 1/10W 390	1	
R303		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R304		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R305		ERJ6GMYJ824	CHIP 1/10W 820K	1	
R306		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R307		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R308		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R309		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R310		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R311		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R312		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R316		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R317		ERJ6GMYJ471	CHIP 1/10W 470	1	
R325		ERJ6GMYJ151	CHIP 1/10W 150	1	
R326		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R327		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R328		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R329		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R330		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R331		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R332		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R334,35		ERJ6GMYJ102	CHIP 1/10W 1K	2	
R338		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R339		ERJ6GMYJ101	CHIP 1/10W 100	1	
R707		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R712		ERJ6GEYJ682	CHIP 1/10W 6.8K	1	
R713		ERJ6GEYJ681	CHIP 1/10W 680	1	
R714		ERD2FCG330	C.RESISTOR 2W 33	1	
R715		ERJ6GEYJ271	CHIP 1/10W 270	1	
R716		ERJ6GEYJ272	CHIP 1/10W 2.7K	1	
R717		ERJ6GEYJ332	CHIP 1/10W 3.3K	1	
R718		ERJ6GEYJ754	CHIP 1/10W 750K	1	
R719		ERJ6GEYJ682	CHIP 1/10W 6.8K	1	
R720		ERJ6GEYJ822	CHIP 1/10W 8.2K	1	
R721		ERJ6GEYJ392	CHIP 1/10W 3.9K	1	
R722		ERJ6GEYJ432	CHIP 1/10W 4.3K	1	
R723		ERJ6GEYJ183	CHIP 1/10W 180K	1	
R724		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R725		ERJ6GEYJ182	CHIP 1/10W 1.8K	1	
R726		ERJ6GEYJ472	CHIP 1/10W 4.7K	1	
R727		ERJ6GEYJ471	CHIP 1/10W 470	1	
R728		VRE0040E471	W.RESISTOR 470	1	
R729,30		ERJ6GEYJ331	CHIP 1/10W 330	2	
R737		ERJ6GEYJ274	CHIP 1/10W 270K	1	
R738		ERJ6GEYJ334	CHIP 1/10W 330K	1	
R739		ERJ6GEYJ681	CHIP 1/10W 680	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R740		ERJ6GEYJ473	CHIP 1/10W 47K	1	
R741,42		ERJ6GEYJ272	CHIP 1/10W 2.7K	2	
R743		ERJ6GEYJ470	CHIP 1/10W 47	1	
R744		ERJ6GEYJ821	CHIP 1/10W 820	1	
R745		ERJ6GEYJ331	CHIP 1/10W 330	1	
R746		VRE0040E151	W.RESISTOR 150	1	
R750		ERJ6GEYJ182	CHIP 1/10W 1.8K	1	
R757		ERJ6GEYJ222	CHIP 1/10W 2.2K	1	
R759		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R760		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R763		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R764		ERJ6GEYJ822	CHIP 1/10W 8.2K	1	
R772		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R773		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R781		ERJ6GEYJ271	CHIP 1/10W 270	1	
R782		ERJ6GEYJ471	CHIP 1/10W 470	1	
R791		ERJ6GEYJ750	CHIP 1/10W 75	1	
R792		ERJ6GEYJ120	CHIP 1/10W 12	1	
R815		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R816		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R818		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R819		ERJ6GMYJ182	CHIP 1/10W 1.8K	1	
R820		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R821,22		ERJ6GMYJ103	CHIP 1/10W 10K	2	
R823		ERJ6GMYJ271	CHIP 1/10W 270	1	
R824		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R825		ERJ6GMYJ182	CHIP 1/10W 1.8K	1	
R826		ERJ6GMYJ681	CHIP 1/10W 680	1	
R1101		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2007		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2008		ERJ6GMYG682	CHIP 1/10W 6.8K	1	
R2009		ERJ6GMYG512	CHIP 1/10W 5.1K	1	
R2010		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R2011		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2029		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2030		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2031		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R2032		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R2033		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2034		ERJ6GMYJ391	CHIP 1/10W 390	1	
R2037		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2038		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2046		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R2047,48		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2049		ERJ6GMYJ273	CHIP 1/10W 27K	1	
R2050		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2051		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2054		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2056		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R2101		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R2102		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R2103		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2104		ERJ6GMYJ221	CHIP 1/10W 220	1	
R2105		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2106		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R2107		ERJ6GMYJ101	CHIP 1/10W 100	1	
R2108		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2109		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R2110		ERJ6GMYJ274	CHIP 1/10W 270K	1	
R2111		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R2112,13		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2114		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R2115		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R2117		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2119		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2120		ERJ6GMYJ274	CHIP 1/10W 270K	1	
R2121		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2122,23		ERJ6GMYJ332	CHIP 1/10W 3.3K	2	
R2124		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2125		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2126		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2127		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2128		ERJ6GMYJ393	CHIP 1/10W 39K	1	
R2129		ERJ6GMYJ221	CHIP 1/10W 220	1	
R2130,31		ERJ6GMYJ152	CHIP 1/10W 1.5K	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2134		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2135		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2136,37		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2138		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R2139		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R2140		ERJ6GMYG333	CHIP 1/10W 33K	1	
R2141		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R2142		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2143		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2146		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2147		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R2148		ERJ6GMYG102	CHIP 1/10W 1K	1	
R2150		ERJ6GMYJ821	CHIP 1/10W 820	1	
R2153		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R2157		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R2158		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2159,60		ERJ6GMYJ223	CHIP 1/10W 22K	2	
R2161		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R2162		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R2163		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2164		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2165		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2166,67		ERJ6GMYJ563	CHIP 1/10W 56K	2	
R2168,69		ERJ6GMYJ223	CHIP 1/10W 22K	2	
R2174		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2177		ERJ6GMYJ681	CHIP 1/10W 680	1	
R2178		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2179		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2501-03		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2504		ERX12SJ1R0	M.RESISTOR 1/2W 1	1	
R2505		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2506		ERJ6GMYG562	CHIP 1/10W 5.6K	1	
R2518		ERJ6GMYJ330	CHIP 1/10W 33	1	
R2901-03		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2906		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R2907		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R3009		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R3010		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R3011		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3018		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R3019		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3022,23		ERJ6GMYJ821	CHIP 1/10W 820	2	
R3028		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3029		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R3030		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3034		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R3035		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3036		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R3037		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3040		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3042		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3051,52		ERJ6GMYJ750	CHIP 1/10W 75	2	
R3054		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R3062		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R3063		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R3064		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R3065		ERJ6GMYJ561	CHIP 1/10W 560	1	
R3084		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3085		ERJ6GMYJ221	CHIP 1/10W 220	1	
R4001		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R4002		ERJ6GMYJ100	CHIP 1/10W 10	1	
R4003		ERJ6GMYJ203	CHIP 1/10W 2K	1	
R4004		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4005		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R4006		ERJ6GMYJ151	CHIP 1/10W 150	1	
R4007		ERJ6GMYJ221	CHIP 1/10W 220	1	
R4008		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R4009		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R4010		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R4012		ERJ6GMYJ331	CHIP 1/10W 330	1	
R4013		ERJ6GMYJ334	CHIP 1/10W 330K	1	
R4014		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R4015		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R4016		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R4017		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R4018		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R4019		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4020		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R4021		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4022		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R4023		ERJ6GMYG473	CHIP 1/10W 47K	1	
R4024,25		ERJ6GMYG104	CHIP 1/10W 100K	2	
R4051		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R4052		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R4054		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R4055		ERJ6GMYJ681	CHIP 1/10W 680	1	
R6001		ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R6002		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R6006		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6007		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R6008		ERJ6GMYJ181	CHIP 1/10W 180	1	
R6009		ERJ6GMYJ561	CHIP 1/10W 560	1	
R6010		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R6011		ERJ6GMYJ221	CHIP 1/10W 220	1	
R6014		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R6017		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6022		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6023		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R6024		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6025		ERJ6GMYJ824	CHIP 1/10W 820K	1	
R6026		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R6027		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6028		ERJ6GMYJ184	CHIP 1/10W 180K	1	
R6029		ERJ6GMYJ561	CHIP 1/10W 560	1	
R6030,31		ERJ6GMYJ153	CHIP 1/10W 15K	2	
R6032		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6033,34		ERJ6GMYJ333	CHIP 1/10W 33K	2	
R6035-37		ERJ6GMYJ101	CHIP 1/10W 100	3	
R6038		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R6041		ERJ6GMYJ391	CHIP 1/10W 390	1	
R6042		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6045		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6046		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R6050		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6051		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6060		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R6067		ERJ6GMYJ101	CHIP 1/10W 100	1	
R6068		ERDS1TJ332	C.RESISTOR 1/2W 3.3K	1	
R6069		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6070		ERJ6GMYJ471	CHIP 1/10W 470	1	
R6071		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R6072		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6073		ERJ6GMYJ131	CHIP 1/10W 130	1	
R6074		ERJ6GMYJ221	CHIP 1/10W 220	1	
R6075		ERG3SJ220	M.RESISTOR 3W 22	1	
R6079,80		ERJ6GMYJ103	CHIP 1/10W 10K	2	
R6083		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R6084,85		ERJ6GMYJ561	CHIP 1/10W 560	2	
R6087-89		ERJ6GMYJ272	CHIP 1/10W 2.7K	3	
R6090		ERJ6GMYJ821	CHIP 1/10W 820	1	
R6091		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6093		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R6095		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R6096		ERJ6GMYJ681	CHIP 1/10W 680	1	
R6098		ERJ6GMYJ101	CHIP 1/10W 100	1	
R6099		ERJ6GMYJ201	CHIP 1/10W 200	1	
R7551,52		ERJ6GMYJ473	CHIP 1/10W 47K	2	
R7553		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R7554		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R7555		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7556		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7557		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7569		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R7570		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R7577		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7578		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R7583		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7597		ERJ6GMYJ102	CHIP 1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TRANSFORMERS		
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A1	TRANSFORMER	1	
T711		EIS5EC004A	TRANSFORMER	1	
T4001		EIQ7QF014Q	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR302		EVN3ACA00B14	V.RESISTOR 10K	1	
VR701,02		EVNDRAA00B23	V.RESISTOR 2K	2	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR751		EVNDRAA00B53	V.RESISTOR 5K	1	
VR803		EVNDRAA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2002		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2010		EVL51MA00B25	V.RESISTOR 200K	1	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR3012		EVNDRAA00B52	V.RESISTOR 500	1	
VR4001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X710		EFCH38MSP1	SAW FILTER	1	
X711		EFCS5R5MW5	FILTER	1	
X712		EFCS5R5MS5	FILTER	1	
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X2101		VSX0066	CRYSTAL OSCILLATOR	1	
X3001		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0258	CRYSTAL OSCILLATOR	1	
X7504		VSQ0565	SENSOR	1	
			MISCELLANEOUS		
		VSC1068	HEAT SINK	1	(FOR IC6003)
		VWJ0228	FLEXIBLE WIRE 13P	1	(P7502-P7401)
		VEJ0634	REAR JACK	1	
		VJF0215	BINDER	1	
		VSC1689	HEAT SINK	1	(FOR IC2501)
		VMC0075	HEAT SINK SPRING	1	(FOR IC2501)
		VMZ1130	HEAT SINK COVER	1	
		VJR0160	PACK PIN 6P	1	(FOR LUMI&CHRO PACK)
		VJR0130	PACK PIN 12P	1	(FOR LUMI&CHRO PACK)
		VJR0163	PACK PIN 9P	1	(FOR LUMI&CHRO PACK)
		VJR0275	PACK PIN 9P	1	(FOR TV DEMODU. PACK)
		VJR0406	PACK PIN 5P	2	(FOR TV DEMODU. PACK)
		VSC2232	SHIELD CASE (TOP)	1	(FOR TV DEMODU. PACK)
		VSC2233	SHIELD CASE (MAIN)	1	(FOR TV DEMODU. PACK)
		VSC2396	SHIELD CASE (BOTTOM)	1	(FOR TV DEMODU. PACK)
		ENC87906	RF CONVERTER	1	<!>
		ENV77817F2	TUNER	1	<!>
	■	VEP07434B	TIMER C.B.A.		NV-G40EG (NLA)
			CAPACITORS		
C6701		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6702		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6704		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA030E41	TRIMMER	1	
C7502		ECUM1H050DCN	C.CAPACITOR CH 50V 5P	1	
C7503		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7505,06		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C7508		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7509		ECUM1H331KBN	C.CAPACITOR CH 50V 330P	1	
C7510		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7511		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7520		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7521		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7522,23		ECUM1H561KBN	C.CAPACITOR CH 50V 560P	2	
			DIODES		
D6701		PN323B	PHOTO DIODE	1	
D7501		ERA15-01	DIODE	1	
D7502		MA165	DIODE	1	
D7503		MA4056	DIODE	1	
D7506-14		MA165	DIODE	9	
D7515		LN28RCPP	LED	1	
D7516		LN38GCPPSVT	LED	1	
D7522		MA165	DIODE	1	
D7526,27		MA165	DIODE	2	
D7534,35		MA165	DIODE	2	
D7539,40		MA165	DIODE	2	
			DISPLAY TUBE		
DP7501		VSL0117	DISPLAY TUBE	1	
			ICS		
IC6701		UPC1490HA	IC	1	
IC7501		M50935V4AD	IC	1	
IC7502		MN1220	IC	1	
IC7503		MN1280P	IC	1	
IC7505		MN1280T	IC	1	
			COIL		
L7501		VLQEL05F221K	COIL 220UH	1	
			CONNECTORS		
P7501		VJS1903	CONNECTOR	1	
P7502		VJS1491	CONNECTOR(FEMALE)	1	
P7503		VJS1451	CONNECTOR(FEMALE)	1	
			TRANSISTOR		
Q7501		2SD637	TRANSISTOR	1	(Q,R,S)
			COMBINATION PARTS		
QR7501		UN2112	TRANSISTOR-RESISTOR	1	
QR7509		UN2113	TRANSISTOR-RESISTOR	1	
QR7510,11		UN2213	TRANSISTOR-RESISTOR	2	
			RESISTORS		
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R7501		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R7502		ERJ6GMYJ224	CHIP 1/10W 220K	1	
R7503		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R7504		ERJ6GMYK106	CHIP 1/10W 10M	1	
R7505		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7506,07		ERJ6GMYJ222	CHIP 1/10W 2.2K	2	
R7509		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R7510		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7511-14		ERJ6GMYJ103	CHIP 1/10W 10K	4	
R7515		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R7519		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R7520-23		ERJ6GMYJ103	CHIP 1/10W 10K	4	
R7524-31		ERJ6GMYJ182	CHIP 1/10W 1.8K	8	
R7532		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7533		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R7535		ERDS1TJ8R2	C.RESISTOR 1/2W 8.2	1	
R7536		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7540,41		ERJ6GMYJ181	CHIP 1/10W 180	2	
R7543		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R7545		ERJ6GMYJ221	CHIP 1/10W 220	1	
R7546		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7547		ERJ6GMYJ103	CHIP 1/10W 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7548,49		ERJ6GMYJ473	CHIP 1/10W 47K	2	
R7550		ERJ6GMYJ561	CHIP 1/10W 560	1	
			SWITCHES		
SW7501-04		EVQQS307K	SWITCH	4	
SW7507-30		EVQQS307K	SWITCH	24	
			VARIABLE RESISTOR		
VR6701		EVMLGGA00B15	V.RESISTOR 100K	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0548	FIP HOLDER	1	
		VMD0504	LED HOLDER	1	
		VMD1047	LED SPACER	1	
		VSC1928	SHIELD CASE (BOTTOM)	1	(FOR IR RECEIVER)
		VSC2059	SHIELD CASE (MAIN)	1	(FOR IR RECEIVER)
	■	VEP07434D	TIMER C.B.A.		NV-G40B (NLA)
			CAPACITORS		
C6701		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6702		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6704		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA030E41	TRIMMER	1	
C7502		ECUM1H050DCN	C.CAPACITOR CH 50V 5P	1	
C7503		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7505,06		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C7508		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7509		ECUM1H331KBN	C.CAPACITOR CH 50V 330P	1	
C7510		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7511		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7520		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C7521		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7522,23		ECUM1H561KBN	C.CAPACITOR CH 50V 560P	2	
			DIODES		
D6701		PN323B	PHOTO DIODE	1	
D7501		ERA15-01	DIODE	1	
D7502		MA165	DIODE	1	
D7503		MA4056	DIODE	1	
D7506-14		MA165	DIODE	9	
D7515		LN81RCPHL	LED	1	
D7516		LN38GCPPSVT	LED	1	
D7521		MA165	DIODE	1	
D7525,26		MA165	DIODE	2	
D7531,32		MA165	DIODE	2	
D7534,35		MA165	DIODE	2	
D7538-40		MA165	DIODE	3	
			DISPLAY TUBE		
DP7501		VSL0117	DISPLAY TUBE	1	
			ICS		
IC6701		UPC1490HA	IC	1	
IC7501		M50935V4AD	IC	1	
IC7502		MN1220	IC	1	
IC7503		MN1280P	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC7505		MN1280T	IC	1	
			COIL		
L7501		VLQEL05F221K	COIL 220UH	1	
			CONNECTORS		
P7501		VJS1903	CONNECTOR	1	
P7502		VJS1491	CONNECTOR(FEMALE)	1	
P7503		VJS1451	CONNECTOR(FEMALE)	1	
			TRANSISTOR		
Q7501		2SD637	TRANSISTOR	1	(Q,R,S)
			COMBINATION PARTS		
QR7501		UN2112	TRANSISTOR-RESISTOR	1	
QR7509		UN2113	TRANSISTOR-RESISTOR	1	
QR7510,11		UN2213	TRANSISTOR-RESISTOR	2	
			RESISTORS		
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R7501		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R7502		ERJ6GMYJ224	CHIP 1/10W 220K	1	
R7503		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R7504		ERJ6GMYK106	CHIP 1/10W 10M	1	
R7505		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7506,07		ERJ6GMYJ222	CHIP 1/10W 2.2K	2	
R7509		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R7510		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7511-14		ERJ6GMYJ103	CHIP 1/10W 10K	4	
R7515		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R7519		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R7520-23		ERJ6GMYJ103	CHIP 1/10W 10K	4	
R7524-31		ERJ6GMYJ182	CHIP 1/10W 1.8K	8	
R7532		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7533		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R7535		ERDS1TJ8R2	C.RESISTOR 1/2W 8.2	1	
R7536		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7540		ERJ6GMYJ181	CHIP 1/10W 180	1	
R7541		ERJ6GMYJ471	CHIP 1/10W 470	1	
R7543		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R7545		ERJ6GMYJ221	CHIP 1/10W 220	1	
R7546		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7547		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7548,49		ERJ6GMYJ473	CHIP 1/10W 47K	2	
R7550		ERJ6GMYJ561	CHIP 1/10W 560	1	
			SWITCHES		
SW7501-04		EVQQS307K	SWITCH	4	
SW7507		EVQQS307K	SWITCH	1	
SW7509,10		EVQQS307K	SWITCH	2	
SW7512-24		EVQQS307K	SWITCH	13	
SW7526-30		EVQQS307K	SWITCH	5	
			VARIABLE RESISTOR		
VR6701		EVMLGGA00B15	V.RESISTOR 100K	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0548	FIP HOLDER	1	
		VMD0504	LED HOLDER	1	
		VMD1047	LED SPACER	1	
		VSC1928	SHIELD CASE (BOTTOM)	1	(FOR IR RECEIVER)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VSC2059	SHIELD CASE (MAIN)	1	(FOR IR RECEIVER)
	■	VEP07434E	TIMER C.B.A.		NV-G40A/EA (NLA)
			CAPACITORS		
C6701		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6702		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6704		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA030E41	TRIMMER	1	
C7502		ECUM1H050DCN	C.CAPACITOR CH 50V 5P	1	
C7503		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7505,06		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C7508		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7509		ECUM1H331KBN	C.CAPACITOR CH 50V 330P	1	
C7510		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7511		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7520		ECEA1HKSR22	E.CAPACITOR 50V 0.22U	1	
C7521		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7522,23		ECUM1H561KBN	C.CAPACITOR CH 50V 560P	2	
			DIODES		
D6701		PN323B	PHOTO DIODE	1	
D7501		ERA15-01	DIODE	1	
D7502		MA165	DIODE	1	
D7503		MA4056	DIODE	1	
D7506-14		MA165	DIODE	9	
D7515		LN28RCPP	LED	1	
D7516		LN38GCPPSVT	LED	1	
D7523		MA165	DIODE	1	
D7535,36		MA165	DIODE	2	
D7539,40		MA165	DIODE	2	
			DISPLAY TUBE		
DP7501		VSL0117	DISPLAY TUBE	1	
			ICS		
IC6701		UPC1490HA	IC	1	
IC7501		M50935V4AC	IC	1	
IC7502		MN1220	IC	1	
IC7503		MN1280P	IC	1	
IC7505		MN1280T	IC	1	
			COIL		
L7501		VLQEL05F221K	COIL 220UH	1	
			CONNECTORS		
P7501		VJS1903	CONNECTOR	1	
P7502		VJS1491	CONNECTOR(FEMALE)	1	
P7503		VJS1451	CONNECTOR(FEMALE)	1	
			TRANSISTOR		
Q7501		2SD637	TRANSISTOR	1	(Q,R,S)
			COMBINATION PARTS		
QR7501		UN2112	TRANSISTOR-RESISTOR	1	
QR7509		UN2113	TRANSISTOR-RESISTOR	1	
QR7510,11		UN2213	TRANSISTOR-RESISTOR	2	
			RESISTORS		
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R7501		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R7502		ERJ6GMYJ224	CHIP 1/10W 220K	1	
R7503		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R7504		ERJ6GMYK106	CHIP 1/10W 10M	1	
R7505		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7506,07		ERJ6GMYJ222	CHIP 1/10W 2.2K	2	
R7509		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R7510		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7511-14		ERJ6GMYJ103	CHIP 1/10W 10K	4	
R7515		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R7519		ERDS2TJ104	C.RESISTOR 1/4W 100K	1	
R7520-23		ERJ6GMYJ103	CHIP 1/10W 10K	4	
R7524-31		ERJ6GMYJ182	CHIP 1/10W 1.8K	8	
R7532		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7533		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R7535		ERDS1TJ8R2	C.RESISTOR 1/2W 8.2	1	
R7536		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7540,41		ERJ6GMYJ181	CHIP 1/10W 180	2	
R7543		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R7545		ERJ6GMYJ221	CHIP 1/10W 220	1	
R7546		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7547		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7548,49		ERJ6GMYJ473	CHIP 1/10W 47K	2	
R7550		ERJ6GMYJ561	CHIP 1/10W 560	1	
			SWITCHES		
SW7501-04		EVQQS307K	SWITCH	4	
SW7507-10		EVQQS307K	SWITCH	4	
SW7512-30		EVQQS307K	SWITCH	19	
			VARIABLE RESISTOR		
VR6701		EVMLGGA00B15	V.RESISTOR 100K	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0548	FIP HOLDER	1	
		VMD0504	LED HOLDER	1	
		VMD1047	LED SPACER	1	
		VSC1928	SHIELD CASE (BOTTOM)	1	(FOR IR RECEIVER)
		VSC2059	SHIELD CASE (MAIN)	1	(FOR IR RECEIVER)
	■	VEP06464B	OPERATION C.B.A.		NV-G40EG/A/EA (NLA)
			CONNECTOR		
P6201		VJS2165W	CONNECTOR (FEMALE)	1	
			VARIABLE RESISTOR		
VR2007,08		EVUFSAE04B15	V.RESISTOR 100K	2	
	■	VEP06464A	OPERATION C.B.A.		NV-G40B (NLA)
			CONNECTOR		
P6201		VJS2165W	CONNECTOR (FEMALE)	1	
			VARIABLE RESISTORS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR2007,08		EVUFSAE04B15	V.RESISTOR 100K	2	
VR3004		EVUJ16E04B24	V.RESISTOR 20K	1	
	■	VEP05117A	HEAD AMP C.B.A.		(NLA)
			CAPACITORS		
C501		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C502		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C503		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C504		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C506		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C507		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C508		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C509		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C510,11		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C512		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C513		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C514		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C515		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C516		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C517		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C518		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C519		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C520-22		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	3	
C523		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C524		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C525		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
			IC		
IC501		BA7253S	IC	1	
			COILS		
L501		VLQEL05F101K	COIL 100UH	1	
L502		VLQEL05F820K	COIL 82UH	1	
L503		VLQEL05F151K	COIL 150UH	1	
L505		VLQEL05F101K	COIL 100UH	1	
L506		VLQEL05F270K	COIL 27UH	1	
			CONNECTORS		
P002		VJS1449	CONNECTOR(FEMALE)	1	
P501		VJP1236T	CONNECTOR(MALE) 9P	1	
			TRANSISTOR		
Q501		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
			COMBINATION PART		
QR501		UN2213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R501		ERJ6GMYJ561	CHIP 1/10W 560	1	
R502		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R503		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R504		ERJ6GMYJ331	CHIP 1/10W 330	1	
R505		ERJ6GMYJ330	CHIP 1/10W 33	1	
R506		ERJ6GMYJ561	CHIP 1/10W 560	1	
R507		ERJ6GMYJ680	CHIP 1/10W 68	1	
R508		ERJ6GMYJ821	CHIP 1/10W 820	1	
R509,10		ERJ6GMYJ100	CHIP 1/10W 10	2	
R511		ERJ6GMYJ821	CHIP 1/10W 820	1	
R513		ERJ6GMYJ821	CHIP 1/10W 820	1	
R514		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R515		ERJ6GMYJ391	CHIP 1/10W 390	1	
R516		ERJ6GMYJ102	CHIP 1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R517		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R518		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R519-21		ERJ6GMYJ222	CHIP 1/10W 2.2K	3	
R522		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R523		ERJ6GMYJ821	CHIP 1/10W 820	1	
			VARIABLE RESISTORS		
VR501		EVND1AA00B23	V.RESISTOR 2K	1	
VR502		EVND1AA00B22	V.RESISTOR 200	1	
			MISCELLANEOUS		
		VSC2353	SHIELD CASE (TOP)	1	
		VSC2354	SHIELD CASE (MAIN)	1	
		VSC2355	SHIELD CASE (BOTTOM)	1	
	■	VEP01310C	POWER C.B.A.		NV-G40EG <!> (NLA)
			CAPACITORS		
C1001		ECQU2A224MN	P.CAPACITOR 100V 0.22U	1	
C1002		ECQU2A104MN	P.CAPACITOR 100V 0.1U	1	
C1003		ECEA2AGE010	E.CAPACITOR 100V 1U	1	
C1004,05		VCC0016	.CAPACITOR V	2	
C1006-08		VCC0021	.CAPACITOR V	3	
C1009		ECOS2GU820	C.CAPACITOR 400V 82P	1	
C1010		ECKD3D331KBN	C.CAPACITOR 2KV 330P	1	
C1011		ECQE6473MZ	P.CAPACITOR 630V 0.047U	1	
C1012		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1013		ECEA1AGE470	E.CAPACITOR 10V 47U	1	
C1014		ECQB1H472KH	P.CAPACITOR 50V 4700P	1	
C1016		ECQP1101JZ	P.CAPACITOR 100V 100P	1	
C1017		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1018		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1019		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1020		ECEA0JEE331	E.CAPACITOR 6.3V 330U	1	
C1021		ECEA1HGE101	E.CAPACITOR 50V 100U	1	
C1022		ECEA1DFZ681Z	E.CAPACITOR 20V 680U	1	
C1023-25		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	3	
C1026		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1027		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1028		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1029		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1033		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C1035		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
			DIODES		
D1001		ENB461D-05A	SURGE ABSORBER 460V	1	
D1002		MA178	DIODE	1	
D1004		S1WBA60	DIODE	1	
D1007		ERA22-02	DIODE	1	
D1008		RL4Z	DIODE	1	
D1009		MA185	DIODE	1	
D1010,11		AK04	DIODE	2	
D1012		MA2200B	DIODE	1	
D1013		MA4130L	DIODE	1	
D1014		VSD0002	DIODE	1	
D1015		APC1C	DIODE	1	
D1017		SV03YS	DIODE	1	
			IC		
IC1001		STK5340	IC	1	
			COILS		
L1001		ELF18D221F	COIL	1	
L1002		ELC07D220	COIL 22U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CONNECTOR		
P1001		VJP1394T	CONNECTOR(MALE)	1	
			TRANSISTORS		
Q1001		STRD1806E	TRANSISTOR	1	
Q1003		2SD1273	TRANSISTOR	1	(P)
Q1004		2SD1330	TRANSISTOR	1	
			COMBINATION PART		
QR1001		DTA143	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R1001		ERC12GM334	S.RESISTOR 1/2W 330K	1	
R1002		ERG1SJ823	M.RESISTOR 1W 82K	1	
R1003		ERG2SJ823	M.RESISTOR 2W 82K	1	
R1004		ERW1PKR39	W.RESISTOR	1	
R1005,06		ERDS2TJ563	C.RESISTOR 1/4W 56K	2	
R1007		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R1008		ERG2SJ181	M.RESISTOR 2W 180	1	
R1012		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1013		ERF2AK2R2	W.RESISTOR 2W 2.2	1	
R1014		ERDS2TJ153	C.RESISTOR 1/4W 15K	1	
R1015,16		ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R1018		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1019		ERG12ANJ182	M.RESISTOR 1/2W 1800	1	
			TRANSFORMER		
T1001		VLT0515	TRANSFORMER	1	
			MISCELLANEOUS		
		VMZ1183	CAPACITOR COVER	2	<!>
		VMZ1184	CAPACITOR COVER	1	<!>
		VJS1972	AC INLET	1	<!>
		VJF0318	FUSE HOLDER	2	<!>
	■	VEP01310D	POWER C.B.A.		NV-G40B <!> (NLA)
			CAPACITORS		
C1001,02		ECQU2A683MN	P.CAPACITOR 100V 0.068U	2	
C1003		ECEA2AGE010	E.CAPACITOR 100V 1U	1	
C1004,05		VCC0016	.CAPACITOR V	2	
C1006-08		VCC0021	.CAPACITOR V	3	
C1009		ECOS2GU820	C.CAPACITOR 400V 82P	1	
C1010		ECKD3D331KBN	C.CAPACITOR 2KV 330P	1	
C1011		ECQE6473MZ	P.CAPACITOR 630V 0.047U	1	
C1012		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1013		ECEA1AGE470	E.CAPACITOR 10V 47U	1	
C1014		ECQB1H472KH	P.CAPACITOR 50V 4700P	1	
C1016		ECQP1101JZ	P.CAPACITOR 100V 100P	1	
C1017		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1018		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1019		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1020		ECEA0JEE331	E.CAPACITOR 6.3V 330U	1	
C1021		ECEA1HGE101	E.CAPACITOR 50V 100U	1	
C1022		ECEA1DFZ681Z	E.CAPACITOR 20V 680U	1	
C1023-25		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	3	
C1026		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1027		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1028		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1029		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1033		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C1035		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			DIODES		
D1001		ENB461D-05A	SURGE ABSORBER 460V	1	
D1002		MA178	DIODE	1	
D1004		S1WBA60	DIODE	1	
D1007		ERA22-02	DIODE	1	
D1008		RL4Z	DIODE	1	
D1009		MA185	DIODE	1	
D1010,11		AK04	DIODE	2	
D1012		MA2200B	DIODE	1	
D1013		MA4130L	DIODE	1	
D1014		VSD0002	DIODE	1	
D1015		AP01C	DIODE	1	
D1017		SV03YS	DIODE	1	
			IC		
IC1001		STK5340	IC	1	
			COILS		
L1001		ELF18D290A	COIL	1	
L1002		ELC07D220	COIL 22U	1	
			CONNECTOR		
P1001		VJP1394T	CONNECTOR(MALE)	1	
			TRANSISTORS		
Q1001		STRD1806E	TRANSISTOR	1	
Q1003		2SD1273	TRANSISTOR	1	(P)
Q1004		2SD1330	TRANSISTOR	1	
			COMBINATION PART		
QR1001		DTA143	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R1001		ERC12GM334	S.RESISTOR 1/2W 330K	1	
R1002		ERG1SJ823	M.RESISTOR 1W 82K	1	
R1003		ERG2SJ823	M.RESISTOR 2W 82K	1	
R1004		ERW1PKR39	W.RESISTOR	1	
R1005,06		ERDS2TJ563	C.RESISTOR 1/4W 56K	2	
R1007		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R1008		ERG2SJ181	M.RESISTOR 2W 180	1	
R1012		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1013		ERF2AK2R2	W.RESISTOR 2W 2.2	1	
R1014		ERDS2TJ153	C.RESISTOR 1/4W 15K	1	
R1015,16		ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R1018		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1019		ERG12ANJ182	M.RESISTOR 1/2W 1800	1	
			TRANSFORMER		
T1001		VLT0515	TRANSFORMER	1	
			MISCELLANEOUS		
		VMZ1183	CAPACITOR COVER	2	<!>
		VMZ1184	CAPACITOR COVER	1	<!>
		VJS1972	AC INLET	1	<!>
		VJF0318	FUSE HOLDER	2	<!>
	■	VEP01310E	POWER C.B.A.		NV-G40A <!> (NLA)
			CAPACITORS		
C1002		ECQU2A683MN	P.CAPACITOR 100V 0.068U	1	
C1003		ECEA2AGE010	E.CAPACITOR 100V 1U	1	
C1004,05		VCC0016	.CAPACITOR V	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1006-08		VCC0021	.CAPACITOR V	3	
C1009		ECOS2GU820	C.CAPACITOR 400V 82P	1	
C1010		ECKD3D331KBN	C.CAPACITOR 2KV 330P	1	
C1011		ECQE6473MZ	P.CAPACITOR 630V 0.047U	1	
C1012		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1013		ECEA1AGE470	E.CAPACITOR 10V 47U	1	
C1014		ECQB1H472KH	P.CAPACITOR 50V 4700P	1	
C1016		ECQP1101JZ	P.CAPACITOR 100V 100P	1	
C1017		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1018		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1019		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1020		ECEA0JEE331	E.CAPACITOR 6.3V 330U	1	
C1021		ECEA1HGE101	E.CAPACITOR 50V 100U	1	
C1022		ECEA1DFZ681Z	E.CAPACITOR 20V 680U	1	
C1023-25		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	3	
C1026		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1027		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1028		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1029		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1033		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C1035		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
			DIODES		
D1002		MA178	DIODE	1	
D1004		S1WBA60	DIODE	1	
D1007		ERA22-02	DIODE	1	
D1008		RL4Z	DIODE	1	
D1009		MA185	DIODE	1	
D1010,11		AK04	DIODE	2	
D1012		MA2200B	DIODE	1	
D1013		MA4130L	DIODE	1	
D1014		VSD0002	DIODE	1	
D1015		AP01C	DIODE	1	
D1017		SV03YS	DIODE	1	
			IC		
IC1001		STK5340	IC	1	
			COILS		
L1001		ELF18D290A	COIL	1	
L1002		ELC07D220	COIL 22U	1	
			CONNECTOR		
P1001		VJP1394T	CONNECTOR(MALE)	1	
			TRANSISTORS		
Q1001		STRD1806E	TRANSISTOR	1	
Q1003		2SD1273	TRANSISTOR	1	(P)
Q1004		2SD1330	TRANSISTOR	1	
			COMBINATION PART		
QR1001		DTA143	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R1002		ERG1SJ823	M.RESISTOR 1W 82K	1	
R1003		ERG2SJ823	M.RESISTOR 2W 82K	1	
R1004		ERW1PKR39	W.RESISTOR	1	
R1005,06		ERDS2TJ563	C.RESISTOR 1/4W 56K	2	
R1007		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R1008		ERG2SJ181	M.RESISTOR 2W 180	1	
R1012		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1013		ERF2AK2R2	W.RESISTOR 2W 2.2	1	
R1014		ERDS2TJ153	C.RESISTOR 1/4W 15K	1	
R1015,16		ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R1018		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1019		ERG12ANJ182	M.RESISTOR 1/2W 1800	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TRANSFORMER		
T1001		VLT0515	TRANSFORMER	1	
			MISCELLANEOUS		
		VMZ1183	CAPACITOR COVER	2	<!>
		VMZ1184	CAPACITOR COVER	1	<!>
		VJS1973	AC INLET	1	<!>
		VJF0318	FUSE HOLDER	2	<!>
	■	VEP01310F	POWER C.B.A.		NV-G40EA <!> (NLA)
			CAPACITORS		
C1001,02		ECQU2A683MN	P.CAPACITOR 100V 0.068U	2	
C1003		ECEA2AGE010	E.CAPACITOR 100V 1U	1	
C1004,05		VCC0016	.CAPACITOR V	2	
C1006-08		VCC0021	.CAPACITOR V	3	
C1009		ECOS2GU820	C.CAPACITOR 400V 82P	1	
C1010		ECKD3D331KBN	C.CAPACITOR 2KV 330P	1	
C1011		ECQE6473MZ	P.CAPACITOR 630V 0.047U	1	
C1012		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1013		ECEA1AGE470	E.CAPACITOR 10V 47U	1	
C1014		ECQB1H472KH	P.CAPACITOR 50V 4700P	1	
C1016		ECQP1101JZ	P.CAPACITOR 100V 100P	1	
C1017		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1018		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1019		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1020		ECEA0JEE331	E.CAPACITOR 6.3V 330U	1	
C1021		ECEA1HGE101	E.CAPACITOR 50V 100U	1	
C1022		ECEA1DFZ681Z	E.CAPACITOR 20V 680U	1	
C1023-25		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	3	
C1026		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1027		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1028		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1029		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1033		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C1035		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
			DIODES		
D1001		ENB461D-05A	SURGE ABSORBER 460V	1	
D1002		MA178	DIODE	1	
D1004		S1WBA60	DIODE	1	
D1007		ERA22-02	DIODE	1	
D1008		RL4Z	DIODE	1	
D1009		MA185	DIODE	1	
D1010,11		AK04	DIODE	2	
D1012		MA2200B	DIODE	1	
D1013		MA4130L	DIODE	1	
D1014		VSD0002	DIODE	1	
D1015		AP01C	DIODE	1	
D1017		SV03YS	DIODE	1	
			IC		
IC1001		STK5340	IC	1	
			COILS		
L1001		ELF18D290A	COIL	1	
L1002		ELC07D220	COIL 22U	1	
			CONNECTOR		
P1001		VJP1394T	CONNECTOR(MALE)	1	
			TRANSISTORS		
Q1001		STRD1806E	TRANSISTOR	1	
Q1003		2SD1273	TRANSISTOR	1	(P)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q1004		2SD1330	TRANSISTOR	1	
			COMBINATION PART		
QR1001		DTA143	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R1001		ERC12GM334	S.RESISTOR 1/2W 330K	1	
R1002		ERG1SJ823	M.RESISTOR 1W 82K	1	
R1003		ERG2SJ823	M.RESISTOR 2W 82K	1	
R1004		ERW1PKR39	W.RESISTOR	1	
R1005,06		ERDS2TJ563	C.RESISTOR 1/4W 56K	2	
R1007		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R1008		ERG2SJ181	M.RESISTOR 2W 180	1	
R1012		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1013		ERF2AK2R2	W.RESISTOR 2W 2.2	1	
R1014		ERDS2TJ153	C.RESISTOR 1/4W 15K	1	
R1015,16		ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R1018		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1019		ERG12ANJ182	M.RESISTOR 1/2W 1800	1	
			TRANSFORMER		
T1001		VLT0515	TRANSFORMER	1	
			MISCELLANEOUS		
		VMZ1183	CAPACITOR COVER	2	<!>
		VMZ1184	CAPACITOR COVER	1	<!>
		VJS1973	AC INLET	1	<!>
		VJF0318	FUSE HOLDER	2	<!>
	■	VEP66038A	REMOTE CONTROL C.B.A.		NV-G40EG/B (NLA)
			CAPACITORS		
C1		ECEA0GKS101	E.CAPACITOR 4V 100U	1	
C2,C3		ECKF1H121KB	C.CAPACITOR 50V 120P	2	
C4		ECQB1H222KH	P.CAPACITOR 50V 2200P	1	
			DIODES		
D1		LN66	LED	1	
D2-D9		MA165	DIODE	8	
			IC		
IC1		MN6011M	IC	1	
			COMBINATION PART		
QR1		UN1231	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R1		ERDS2TJ1R0	C.RESISTOR 1/4W 1.0	1	
			CRYSTAL OSCILLATOR		
X1		VSX0201	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJR0253	ELECTRODE (+)	1	
		VJR0254	ELECTRODE (-)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP66042A	REMOTE CONTROL C.B.A.		NV-G40A/EA (NLA)
			CAPACITORS		
C1,C2		ECKF1H471KB	C.CAPACITOR 50V 470P	2	
C3		ECEA0GKS101	E.CAPACITOR 4V 100U	1	
			DIODE		
D1		LN66	LED	1	
			IC		
IC1		UPD6128C604	IC	1	
			COMBINATION PART		
QR1		UN1231	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R1		ERDS2TJ1R0	C.RESISTOR 1/4W 1.0	1	
R2		ERDS2TJ822	C.RESISTOR 1/4W 8.2K	1	
			CRYSTAL OSCILLATOR		
X1		VSX0269	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJR0183	ELECTRODE	1	
	■	VEP66039C	DIGITAL SCANNER C.B.A.		NV-G40EG/A/EA (NLA)
			CAPACITORS		
C01		ECEV1CA470P	E.CAPACITOR 16V 47U	1	
C02		ECEV1HAN010R	E.CAPACITOR 50V 1U	1	
C03,04		ECUM1E104ZFM	C.CAPACITOR CH 25V 0.1U	2	
C05		ECSE1CY105Z	T.CAPACITOR 16V 1U	1	
C06		ECEV1CA470P	E.CAPACITOR 16V 47U	1	
C07,08		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C09-12		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
			DIODES		
D01		MA151WK	DIODE	1	
D04		MA151WK	DIODE	1	
D05		MA153	DIODE	1	
D06		SE303ACY	DIODE	1	
			ICS		
IC01		MN158453VPB	IC	1	
IC02		UPC324G2	IC	1	
IC03		RC78L02UAA1	IC	1	
			COIL		
L01		ELT3K017B	COIL	1	
			LCD DISPLAY		
LCD01		VSL0131	LCD DISPLAY	1	
			TRANSISTORS		
Q01,02		2SB710	TRANSISTOR CHIP	2	(Q,R,S)
Q03		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q05		2SB709	TRANSISTOR CHIP	1	(Q,R,S)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			COMBINATION PART		
QR04		FA1L4Z	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R01		ERJ6GMYJ560	CHIP 1/10W 56	1	
R02		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R03		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R04		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R05		ERJ6GMYJ202	CHIP 1/10W 2K	1	
R06		ERJ6GMYJ244	CHIP 1/10W 240K	1	
R07		ERJ6GMYJ162	CHIP 1/10W 1.6K	1	
R08		ERJ6GMYJ224	CHIP 1/10W 220K	1	
R09		ERJ6GMYJ474	CHIP 1/10W 470K	1	
R10		ERJ6GMYK106	CHIP 1/10W 10M	1	
R11		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R12		ERJ6GMYK106	CHIP 1/10W 10M	1	
R13		ERJ6GMYJ361	CHIP 1/10W 360	1	
R14		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R15		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R16,17		ERJ6GMYJ682	CHIP 1/10W 6.8K	2	
R18		ERJ8GCYJ120	CHIP 1/8W 12	1	
R19		ERJ6GMYJ474	CHIP 1/10W 470K	1	
R21		ERJ6GMYJ474	CHIP 1/10W 470K	1	
R23		ERJ6GMYJ681	CHIP 1/10W 680	1	
R24		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R29		ERJ8GCYJ150	CHIP 1/8W 15	1	
			SENSOR		
SN01		VSQ0567	SENSOR	1	
			SWITCHES		
SW01		VSS0126	SWITCH	1	
SW02		EVQQFV02K	SWITCH	1	
			VARIABLE RESISTOR		
VR09		EVND4KA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X01		VSX0246	CRYSTAL OSCILLATOR	1	
X02		EFBAL30D001K	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VGQ1406	TERMINAL BASE	1	
		VJR0401	TERMINAL ANGLE	2	
		VMX1324	SPACER	1	
	■	VEP66039B	DIGITAL SCANNER C.B.A.		NV-G40B (NLA)
			CAPACITORS		
C01		ECEV1CA470P	E.CAPACITOR 16V 47U	1	
C02		ECEV1HAN010R	E.CAPACITOR 50V 1U	1	
C03,04		ECUM1E104ZFM	C.CAPACITOR CH 25V 0.1U	2	
C05		ECSE1CY105Z	T.CAPACITOR 16V 1U	1	
C06		ECEV1CA470P	E.CAPACITOR 16V 47U	1	
C07,08		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C09-12		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
			DIODES		
D01		MA151WK	DIODE	1	
D04		MA151WK	DIODE	1	
D05		MA153	DIODE	1	
D06		SE303ACY	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			ICS		
IC01		MN158453VPB	IC	1	
IC02		UPC324G2	IC	1	
IC03		RC78L02UAA1	IC	1	
			COIL		
L01		ELT3K017B	COIL	1	
			LCD DISPLAY		
LCD01		VSL0131	LCD DISPLAY	1	
			TRANSISTORS		
Q01,02		2SB710	TRANSISTOR CHIP	2	(Q,R,S)
Q03		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q05		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
			COMBINATION PART		
QR04		FA1L4Z	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R01		ERJ6GMYJ560	CHIP 1/10W 56	1	
R02		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R03		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R04		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R05		ERJ6GMYJ202	CHIP 1/10W 2K	1	
R06		ERJ6GMYJ244	CHIP 1/10W 240K	1	
R07		ERJ6GMYJ162	CHIP 1/10W 1.6K	1	
R08		ERJ6GMYJ224	CHIP 1/10W 220K	1	
R09		ERJ6GMYJ474	CHIP 1/10W 470K	1	
R10		ERJ6GMYK106	CHIP 1/10W 10M	1	
R11		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R12		ERJ6GMYK106	CHIP 1/10W 10M	1	
R13		ERJ6GMYJ361	CHIP 1/10W 360	1	
R14		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R15		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R16,17		ERJ6GMYJ682	CHIP 1/10W 6.8K	2	
R18		ERJ8GCYJ120	CHIP 1/8W 12	1	
R19		ERJ6GMYJ474	CHIP 1/10W 470K	1	
R21		ERJ6GMYJ474	CHIP 1/10W 470K	1	
R23		ERJ6GMYJ681	CHIP 1/10W 680	1	
R24		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R29		ERJ8GCYJ150	CHIP 1/8W 15	1	
			SENSOR		
SN01		VSQ0567	SENSOR	1	
			SWITCHES		
SW01		VSS0126	SWITCH	1	
SW02		EVQQFV02K	SWITCH	1	
			VARIABLE RESISTOR		
VR09		EVND4KA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X01		VSX0246	CRYSTAL OSCILLATOR	1	
X02		EFBAL30D001K	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VGQ1406	TERMINAL BASE	1	
		VJR0401	TERMINAL ANGLE	2	
		VMX1324	SPACER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEK3583	MECHANISM CONNECTION C.B.A.		
			CONNECTORS		
P1504		VJS2342	CONNECTOR	1	
P1505		VJP1242	CONNECTOR	1	
			RESISTORS		
R1501		ERJ8GCYJ223	CHIP 22K	1	
		VEK3555	REEL SENSOR C.B.A.	1	
			INTEGRATED CIRCUIT		
IC1501		ON2170	IC	1	
			CONNECTOR		
P1506		VJP1242T	CONNECTOR	1	
	■	VXA2689	LED C.B.A.		
			DIODE		
D1501		GL450	PHOTO DIODE	1	
			MISCELLANEOUS		
		VMD0911	LED HOLDER	1	
	■	VEK3578	SUPPLY PHOTO Tr. C.B.A.		
			CAPACITOR		
C1501		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
			TRANSISTOR		
Q1501		PN150NV	TRANSISTOR	1	
			MISCELLANEOUS		
		VMD0645	PHOTO Tr. HOLDER	1	
	■	- - - - -	TAKE UP PHOTO Tr. C.B.A.		THIS PART IS INCLUDED IN SLIDE SW UNIT (VXA3498).
			CAPACITOR		
C1502		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
			CONNECTOR		
P1508		VJS2165	CONNECTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TRANSISTOR		
Q1502		PN150NV	TRANSISTOR	1	
			RESISTOR		
R1503		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
			MISCELLANEOUS		
		VMD0645	PHOTO Tr. HOLDER	1	

3. NV-G45A/EA Electrical Replacement Parts List

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.
3.Unless otherwise specified,
All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4.The P.C.Board units marked width'■'show below the main assembled parts.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
**********		NV-G45A/EA			
		VEP03493AC	MAIN C.B.A.	1	NV-G45A <!> (NLA) INCLUDING THE SUB MAIN C.B.A. (VEP02301B), LUMINANCE & CHROMINANCE PACK C.B.A.(VEP03543D), TV DEMODULATOR PACK C.B.A.(VEP07444B).
		VEP03493AD	MAIN C.B.A.	1	NV-G45EA <!> (NLA) INCLUDING THE SUB MAIN C.B.A. (VEP02301F), SUB SERVO PACK C.B.A. (VEP02281B), LUMINANCE & CHROMINANCE PACK C.B.A.(VEP03543D), TV DEMODULATOR PACK C.B.A.(VEP07444A).
		VEP02301B	SUB MAIN C.B.A.	1	NV-G45A (NLA) INCLUDED IN MAIN C.B.A.(VEP03493AC).
		VEP02301F	SUB MAIN C.B.A.	1	NV-G45EA (NLA) INCLUDING THE SUB SERVO PACK C.B.A. (VEP02281B). INCLUDED IN MAIN C.B.A.(VEP03493AD).
		VEP02281B	SUB SERVO PACK C.B.A.	1	NV-G45EA (NLA) INCLUDED IN MAIN C.B.A.(VEP03493AD).
		VEP03543D	LUMINANCE & CHROMINANCE PACK C.B.A.	1	(NLA) INCLUDED IN MAIN C.B.A.(VEP03493AC, VEP03493AD).
		VEP07444B	TV DEMODULATOR PACK C.B.A.	1	NV-G45A (NLA) INCLUDED IN MAIN C.B.A.(VEP03493AC).
		VEP07444A	TV DEMODULATOR PACK C.B.A.	1	NV-G45EA (NLA) INCLUDED IN MAIN C.B.A.(VEP03493AD).
		VEP07425A	TIMER C.B.A.	1	(NLA) INCLUDING THE IR RECEIVER C.B.A. (VEP06380E).
		VEP06380E	IR RECEIVER C.B.A.	1	(NLA) INCLUDED IN TIMER C.B.A.(VEP07425A).
		VEP06463B	OPERATION C.B.A.	1	(NLA)
		VEP05120A	HEAD AMP C.B.A.	1	(NLA)
		VEP01310E	POWER C.B.A.	1	NV-G45A <!> (NLA) INCLUDING THE POWER INLET C.B.A. (VEP01311C).
		VEP01310F	POWER C.B.A.	1	NV-G45EA <!> (NLA) INCLUDING THE POWER INLET C.B.A. (VEP01311D).
		VEP01311C	POWER INLET C.B.A.	1	NV-G45A <!> (NLA) INCLUDED IN POWER C.B.A.(VEP01310E).
		VEP01311D	POWER INLET C.B.A.	1	NV-G45EA <!> (NLA) INCLUDED IN POWER C.B.A.(VEP01310F).
		VEK3583	MECHANISM CONNECTION C.B.A.	1	(NLA)
		VEK3555	REEL SENSOR C.B.A.	1	(NLA)
		VXA2689	LED C.B.A.	1	(NLA)
		- - - - -	PHOTO Tr.(T) C.B.A.	1	THIS PART IS INCLUDED IN SLIDE SW UNIT (VXA3498).
		VEK3578	PHOTO Tr.(S) C.B.A.	1	(NLA)
		VEP66030A	REMOTE CONTROL UNIT C.B.A.	1	(NLA)
		VEP66039B	DIGITAL SCANNER C.B.A.	1	(NLA)
		ENC87907	RF CONVERTER	1	NV-G45A <!>
		ENC87906	RF CONVERTER	1	NV-G45EA <!>
		ENV77820F2	TUNER	1	NV-G45A <!>
		ENV77817F2	TUNER	1	NV-G45EA <!>
F1001		XBA2C16TB0	FUSE	1	<!>
	■	VEP03493AC	MAIN C.B.A.		NV-G45A <!> (NLA)
			CAPACITORS		
C301		ECEA1EKN2R2	E.CAPACITOR 25V 2.2U	1	
C302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C303		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C304		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C305		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C306		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C310		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C311,12		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C313		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C314		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C315		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C317		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C319		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C320		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C321		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C322		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C324		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C325,26		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C327,28		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C329		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C331		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C332		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C333		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C335		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C336		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C337		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C338		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C339		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C340		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C349		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C351		ECCF1H220JC	C.CAPACITOR 50V 22P	1	
C352		ECQB1H562JZ	F.CAPACITOR 50V 5600P	1	
C353		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C360		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C701,02		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C705		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C706		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C707		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C708,09		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C715-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C721		ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C732		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C735		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C736		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C737		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUM1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270RSN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUM1H680JRN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C747		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C748		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C760		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C781		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C782		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C801		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C814		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C815		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C816		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C817		ECQV1H124JZ	P.CAPACITOR 50V 0.12U	1	
C818		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C819		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C820		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C821		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C823		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C824		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C825		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C826		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C827		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C828		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C829		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C831,32		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C1101		ECEA1EK100	E.CAPACITOR 25V 10U	1	
C2022		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2023		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2024		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C2026		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C2027		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2104		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2105		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C2106		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2107		ECEA1HKN010	E.CAPACITOR 50V 1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2108		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2109		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2110		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2112		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2113		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2114		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2115		ECEA1HKNR33	E.CAPACITOR 50V 0.33U	1	
C2116		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2117		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2118		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2119		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C2120		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2121		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2122		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2124,25		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C2126		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2127		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2129		ECQB1H272JZ	F.CAPACITOR 50V 2700P	1	
C2130		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2131		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2132		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2134		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2137		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2138		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2139		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2140		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2141		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2142,43		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2146		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2147		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2148		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2150		VCYD1E223KR	S.CAPACITOR 25V 0.022U	1	
C2155		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2156		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2158		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2172		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C2174		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2175		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2176		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C2177		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2178		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C2179		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2181,82		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C2183		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2184		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2501-03		ECQB1H333JZ	P.CAPACITOR 50V 0.033U	3	
C2504-06		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2507		ECQB1H223JZ	P.CAPACITOR 50V 0.022U	1	
C2508		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2511		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2512-14		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	3	
C2517		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C2519		ECEA25Z47	E.CAPACITOR 25V 4.7U	1	
C2901		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2902-04		ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	3	
C2905		ECQB1H473JH	P.CAPACITOR 50V 0.047U	1	
C2906		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2907		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2908-10		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	3	
C2911		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2912		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3001		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3003,04		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3007		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3010		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3011		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3012		ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C3013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3014		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3015		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3016		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3019		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3051		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3053		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3054		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3064		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3067,68		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3070		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3077		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4001		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C4002		ECEA16Z33	E.CAPACITOR 16V 33U	1	
C4003		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C4004		ECQP1332JZ	P.CAPACITOR	1	
C4005		ECCD2H121K	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4011		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C4015		ECEA1CKL100	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA16M10	E.CAPACITOR 16V 10U	1	
C4018		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C4022		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4023		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4032		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4039		VCYD1E103KR	S.CAPACITOR 25V 0.01U	1	
C6001		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6002		VCYD1C103MR1	S.CAPACITOR 16V 0.01U	1	
C6003		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6006		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6007		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6013		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C6017-19		ECEA0JK470	E.CAPACITOR 6.3V 47U	3	
C6020		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6023		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6024-26		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	3	
C6027		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C6028		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6029		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7551		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7552		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7553		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7554		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7555,56		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7557		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7558		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7559		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7560		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7562,63		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7564		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7565		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7569		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7571		EECS5R5V105	C.CAPACITOR 5.5V 1U	1	
C7590		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C7591		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7592		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7593,94		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	2	
			DIODES		
D301		MA4091M	DIODE	1	
D710		MA3100L	DIODE	1	
D712		MA28W	DIODE	1	
D1101,02		MA165	DIODE	2	
D2007		MA165	DIODE	1	
D2014		MA165	DIODE	1	
D2101-06		MA165	DIODE	6	
D3008,09		MA165	DIODE	2	
D3011		MA165	DIODE	1	
D4001		MA165	DIODE	1	
D4050		MA165	DIODE	1	
D6001		ERA15-01	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D6002		MA165	DIODE	1	
D6004,05		MA165	DIODE	2	
D6017		ERA15-01	DIODE	1	
D6019		MA4150M	DIODE	1	
D6023,24		MA165	DIODE	2	
D6028,29		MA165	DIODE	2	
D6030		MA4056L	DIODE	1	
D6032		MA165	DIODE	1	
D7554		MA165	DIODE	1	
			DELAY LINE		
DL802		VLD0148	DELAY LINE	1	
			FILTERS		
FL301		ELB4M022	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0567	FILTER	1	
FL801		VLF0299	FILTER	1	
FL3001		VLF0413	FILTER	1	
			ICS		
IC301		VEFH03D	HIC	1	
IC303		MSM6965-3RS	IC	1	
IC701		M51366SP	IC	1	
IC801		VEFH04A	HIC	1	
IC2101		UPD6160AA606	IC	1	
IC2102		MN15312VPL	IC	1	
IC2103,04		AN6562	IC	2	
IC2105		UPD4069UBC	IC	1	
IC2501		BA6432S	IC	1	
IC2901		AN3814K	IC	1	
IC3001		BA7004	IC	1	
IC4001		BA7766AS	IC	1	
IC6001		MN15362VNK	IC	1	
IC6002		AN6914	IC	1	
IC6003		MN4510B	IC	1	
IC6004		MN12821R	IC	1	
IC7551		AN5043	IC	1	
			COILS		
L301		VLQEL05F101K	COIL 100UH	1	
L302		VLQEL05F220K	COIL 22UH	1	
L303,04		VLQEL05F101K	COIL 100UH	2	
L306		VLQEL05F101K	COIL 100UH	1	
L307		VLQEL05F151K	COIL 150UH	1	
L308		VLQEL05F270K	COIL 27UH	1	
L309,10		VLQEL05F101K	COIL 100UH	2	
L311		VLQEL05F2R2K	COIL 2.2UH	1	
L701,02		ELESP680KA	COIL 68UH	2	
L712		VLQ0305JR82	COIL 0.82UH	1	
L713		VLQ0305JR56	COIL 0.56UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP680KA	COIL 68UH	1	
L804		VLQEL05F150K	COIL 15UH	1	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F681K	COIL 680UH	1	
L808		VLQEL05F470K	COIL 47UH	1	
L809		VLQEL05F331K	COIL 330UH	1	
L810		VLQEL05F101K	COIL 100UH	1	
L811		VLQEL05F470K	COIL 47UH	1	
L812		VLQEL05F681K	COIL 680UH	1	
L2501		VLQEL05F102K	COIL 1000UH	1	
L2502		VLP0074	COIL	1	
L3001-03		VLQEL05F101K	COIL 100UH	3	
L3005		VLQEL05F120K	COIL 12UH	1	
L3006		VLQEL05F5R6K	COIL 5.6UH	1	
L3007		VLQEL05F101K	COIL 100UH	1	
L3008		VLQEL05F3R3K	COIL 3.3UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L3012		VLQEL05F101K	COIL 100UH	1	
L3014		VLQEL05F470K	COIL 47UH	1	
L4001		VLQEL07F822J	COIL 8200UH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L7551		VLQEL05F680K	COIL 68UH	1	
			CONNECTORS		
P006		VJS1902	CONNECTOR (FEMALE)	1	
P501		VJF0171T	CONNECTOR	1	
P1001		VJF0171T	CONNECTOR	1	
P1101		VJF0171R	CONNECTOR	1	
P1101		VJP1393T	CONNECTOR(MALE) 13P	1	
P2001		VJP1235T	CONNECTOR(MALE) 8P	1	
P2001		VJS1235T	CONNECTOR (FEMALE)	1	
P2002		VJP1932T	CONNECTOR (MALE)	1	
P2002		VJS1932	CONNECTOR (FEMALE)	1	
P2901		VJS1237T	CONNECTOR	1	
P3001		VJF0171T	CONNECTOR	1	
P3001		VJP1393T	CONNECTOR(MALE) 13P	1	
P4001		VJP1233T	CONNECTOR(MALE) 6P	1	
P6001		VJS2157W	CONNECTOR (FEMALE)	1	
P6002		VJS2149W	CONNECTOR (FEMALE)	1	
P6003		VJP1236T	CONNECTOR(MALE) 9P	1	
P6003		VJS1742T	CONNECTOR	1	
P6202		VJS1742T	CONNECTOR	1	
P7401		VJS1475	CONNECTOR(FEMALE)	1	
P7402		VJS2157W	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q301		2SB709	TRANSISTOR CHIP	1	
Q302,03		2SC2295	TRANSISTOR CHIP	2	(B,C)
Q304		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q703		2SD601	TRANSISTOR	1	(S,T)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR	1	
Q714		2SD601	TRANSISTOR CHIP	1	
Q771		2SD601	TRANSISTOR CHIP	1	
Q804		2SB709	TRANSISTOR CHIP	1	
Q2001		2SB709	TRANSISTOR CHIP	1	
Q2002-04		2SD601	TRANSISTOR CHIP	3	
Q2006		2SD1330	TRANSISTOR	1	(S,T)
Q2108		2SD601	TRANSISTOR CHIP	1	
Q2111,12		2SD601	TRANSISTOR CHIP	2	
Q3002		2SC2295	TRANSISTOR	1	
Q3004		2SB709	TRANSISTOR CHIP	1	
Q3006		2SC2295	TRANSISTOR	1	
Q3007		2SB641	TRANSISTOR	1	
Q3014		2SA564	TRANSISTOR	1	(P,Q,R)
Q4001		2SD602	TRANSISTOR	1	(R)
Q6006		2SB641	TRANSISTOR	1	
Q6007		2SB643	TRANSISTOR	1	
Q6009		2SB643	TRANSISTOR	1	(R,S)
Q6016		2SD1275	TRANSISTOR	1	(P,Q)
Q6017		2SD893	TRANSISTOR	1	
Q6018		2SD973	TRANSISTOR	1	(S)
Q6019		2SD638	TRANSISTOR	1	
Q6020		2SD973	TRANSISTOR	1	(S)
			COMBINATION PARTS		
QR701,02		UN2213	TRANSISTOR-RESISTOR	2	
QR711,12		UN2212	TRANSISTOR-RESISTOR	2	
QR713		UN2211	TRANSISTOR-RESISTOR	1	
QR1101		UN2213	TRANSISTOR-RESISTOR	1	
QR2002		UN2212	TRANSISTOR-RESISTOR	1	
QR2007		UN2213	TRANSISTOR-RESISTOR	1	
QR2101,02		UN2113	TRANSISTOR-RESISTOR	2	
QR2103		UN2212	TRANSISTOR-RESISTOR	1	
QR2104		UN2110	TRANSISTOR-RESISTOR	1	
QR2105		UN2117	TRANSISTOR-RESISTOR	1	
QR2106		UN2115	TRANSISTOR-RESISTOR	1	
QR2107		UN2110	TRANSISTOR-RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR3004		UN2111	TRANSISTOR-RESISTOR	1	
QR6001		UN2212	TRANSISTOR-RESISTOR	1	
QR6005		UN2213	TRANSISTOR-RESISTOR	1	
QR6006		UN2111	TRANSISTOR-RESISTOR	1	
QR6008		UN2119	TRANSISTOR-RESISTOR	1	
QR6011		UN2212	TRANSISTOR-RESISTOR	1	
QR6012		UN2113	TRANSISTOR-RESISTOR	1	
QR7561		UN2211	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R301		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R302		ERJ6GMYJ391	CHIP 1/10W 390	1	
R303		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R304		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R305		ERJ6GMYJ824	CHIP 1/10W 820K	1	
R306		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R307		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R308		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R309		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R310		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R311		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R312		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R316		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R317		ERJ6GMYJ471	CHIP 1/10W 470	1	
R325		ERJ6GMYJ151	CHIP 1/10W 150	1	
R326		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R327		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R328		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R329		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R330		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R331		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R332		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R334,35		ERJ6GMYJ102	CHIP 1/10W 1K	2	
R338		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R339		ERJ6GMYJ101	CHIP 1/10W 100	1	
R707		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R712		ERJ6GEYJ682	CHIP 1/10W 6.8K	1	
R713		ERJ6GEYJ681	CHIP 1/10W 680	1	
R714		ERD2FCG330	C.RESISTOR 2W 33	1	
R715		ERJ6GEYJ271	CHIP 1/10W 270	1	
R716		ERJ6GEYJ272	CHIP 1/10W 2.7K	1	
R717		ERJ6GEYJ332	CHIP 1/10W 3.3K	1	
R718		ERJ6GEYJ754	CHIP 1/10W 750K	1	
R719		ERJ6GEYJ682	CHIP 1/10W 6.8K	1	
R720		ERJ6GEYJ822	CHIP 1/10W 8.2K	1	
R721		ERJ6GEYJ392	CHIP 1/10W 3.9K	1	
R722		ERJ6GEYJ432	CHIP 1/10W 4.3K	1	
R723		ERJ6GEYJ183	CHIP 1/10W 180K	1	
R724		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R725		ERJ6GEYJ182	CHIP 1/10W 1.8K	1	
R726		ERJ6GEYJ472	CHIP 1/10W 4.7K	1	
R727		ERJ6GEYJ471	CHIP 1/10W 470	1	
R728		VRE0040E471	W.RESISTOR 470	1	
R729,30		ERJ6GEYJ331	CHIP 1/10W 330	2	
R737		ERJ6GEYJ274	CHIP 1/10W 270K	1	
R738		ERJ6GEYJ334	CHIP 1/10W 330K	1	
R739		ERJ6GEYJ681	CHIP 1/10W 680	1	
R740		ERJ6GEYJ473	CHIP 1/10W 47K	1	
R741,42		ERJ6GEYJ272	CHIP 1/10W 2.7K	2	
R743		ERJ6GEYJ470	CHIP 1/10W 47	1	
R744		ERJ6GEYJ821	CHIP 1/10W 820	1	
R745		ERJ6GEYJ331	CHIP 1/10W 330	1	
R746		VRE0040E151	W.RESISTOR 150	1	
R750		ERJ6GEYJ182	CHIP 1/10W 1.8K	1	
R757		ERJ6GEYJ222	CHIP 1/10W 2.2K	1	
R759		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R760		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R763		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R764		ERJ6GEYJ822	CHIP 1/10W 8.2K	1	
R772		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R773		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R781		ERJ6GEYJ271	CHIP 1/10W 270	1	
R782		ERJ6GEYJ471	CHIP 1/10W 470	1	
R791		ERJ6GEYJ750	CHIP 1/10W 75	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R792		ERJ6GEYJ120	CHIP 1/10W 12	1	
R815		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R816		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R818		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R819		ERJ6GMYJ182	CHIP 1/10W 1.8K	1	
R820		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R821,22		ERJ6GMYJ103	CHIP 1/10W 10K	2	
R823		ERJ6GMYJ271	CHIP 1/10W 270	1	
R824		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R825		ERJ6GMYJ182	CHIP 1/10W 1.8K	1	
R826		ERJ6GMYJ681	CHIP 1/10W 680	1	
R1101		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2007		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2008		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R2009		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2010		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R2011		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2029		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2030		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2031		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R2032		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R2033		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2034		ERJ6GMYJ391	CHIP 1/10W 390	1	
R2037		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2038		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2046		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R2047,48		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2049		ERJ6GMYJ273	CHIP 1/10W 27K	1	
R2050		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2051		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2054		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2056		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R2106		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R2108		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2109		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R2110		ERJ6GMYJ274	CHIP 1/10W 270K	1	
R2111		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R2112,13		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2114		ERJ6GMYJ224	CHIP 1/10W 220K	1	
R2115		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R2117		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2119		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2120		ERJ6GMYJ274	CHIP 1/10W 270K	1	
R2121		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2122,23		ERJ6GMYJ332	CHIP 1/10W 3.3K	2	
R2124		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2125		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2131		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R2132,33		ERJ6GMYJ563	CHIP 1/10W 56K	2	
R2134		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2135		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2136,37		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2138		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R2139		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R2140		ERJ6GMYG333	CHIP 1/10W 33K	1	
R2141		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R2142		ERJ6GMYJ154	CHIP 1/10W 150K	1	
R2143		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2144,45		ERJ6GMYJ223	CHIP 1/10W 22K	2	
R2146		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2147		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R2148		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R2149		ERJ6GMYG472	M.RESISTOR CH1/10W 4.7K	1	
R2150		ERJ6GMYJ821	CHIP 1/10W 820	1	
R2151		ERJ6GMYJ824	CHIP 1/10W 820K	1	
R2153		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R2156		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R2157		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R2158		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2159,60		ERJ6GMYJ223	CHIP 1/10W 22K	2	
R2161		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R2166,67		ERJ6GMYJ563	CHIP 1/10W 56K	2	
R2168,69		ERJ6GMYJ562	CHIP 1/10W 5.6K	2	
R2174		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2175		ERJ6GMYJ334	CHIP 1/10W 330K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2177		ERJ6GMYJ681	CHIP 1/10W 680	1	
R2178		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2179		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2181		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2182		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R2183		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2184		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2185		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R2186,87		ERJ6GMYJ222	CHIP 1/10W 2.2K	2	
R2188		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R2189		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2190		ERJ6GMYJ821	CHIP 1/10W 820	1	
R2191		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R2192		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2193		ERJ6GMYJ564	M.RESISTOR CH1/10W 560K	1	
R2501-03		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2504		ERDS1TJ1R0	C.RESISTOR 1/2W 1.0	1	
R2505		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2506		ERJ6GMYG512	CHIP 1/10W 5.1K	1	
R2518		ERJ6GMYJ330	CHIP 1/10W 33	1	
R2901-03		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2906		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R2907		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R3009		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R3010		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R3011		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3018		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R3019		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3022,23		ERJ6GMYJ821	CHIP 1/10W 820	2	
R3028		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3029		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R3030		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3032		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R3033		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R3034		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R3035		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3036		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R3037		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3040		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3042		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3051,52		ERJ6GMYJ750	CHIP 1/10W 75	2	
R3054		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R3062		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R3063		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R3064		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R3065		ERJ6GMYJ561	CHIP 1/10W 560	1	
R3084		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3085		ERJ6GMYJ221	CHIP 1/10W 220	1	
R3087,88		ERJ6GMYJ222	CHIP 1/10W 2.2K	2	
R4001		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R4002		ERJ6GMYJ100	CHIP 1/10W 10	1	
R4003		ERJ6GMYJ203	CHIP 1/10W 2K	1	
R4004		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4005		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R4006		ERJ6GMYJ151	CHIP 1/10W 150	1	
R4007		ERJ6GMYJ221	CHIP 1/10W 220	1	
R4008		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R4009		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R4010		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R4012		ERJ6GMYJ331	CHIP 1/10W 330	1	
R4013		ERJ6GMYJ334	CHIP 1/10W 330K	1	
R4014		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R4015		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R4016		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R4017		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R4018		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R4019		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4020		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R4021		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4022		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R4023		ERJ6GMYG473	CHIP 1/10W 47K	1	
R4024,25		ERJ6GMYG104	CHIP 1/10W 100K	2	
R4051		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R4052		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R4054		ERJ6GMYJ102	CHIP 1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4055		ERJ6GMYJ681	CHIP 1/10W 680	1	
R6001		ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R6002		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R6006		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6007		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R6008		ERJ6GMYJ181	CHIP 1/10W 180	1	
R6009		ERJ6GMYJ561	CHIP 1/10W 560	1	
R6010		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R6011		ERJ6GMYJ221	CHIP 1/10W 220	1	
R6014		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R6017		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6022		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6023		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R6024		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6025		ERJ6GMYJ824	CHIP 1/10W 820K	1	
R6026		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R6027		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6028		ERJ6GMYJ184	CHIP 1/10W 180K	1	
R6029		ERJ6GMYJ561	CHIP 1/10W 560	1	
R6030,31		ERJ6GMYJ153	CHIP 1/10W 15K	2	
R6032		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6033,34		ERJ6GMYJ333	CHIP 1/10W 33K	2	
R6035-37		ERJ6GMYJ101	CHIP 1/10W 100	3	
R6038		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R6041		ERJ6GMYJ391	CHIP 1/10W 390	1	
R6042		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6045		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6046		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R6050		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6051		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6060		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R6067		ERJ6GMYJ101	CHIP 1/10W 100	1	
R6068		ERDS1TJ332	C.RESISTOR 1/2W 3.3K	1	
R6069		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6070		ERJ6GMYJ471	CHIP 1/10W 470	1	
R6071		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R6072		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6073		ERJ6GMYJ131	CHIP 1/10W 130	1	
R6074		ERJ6GMYJ221	CHIP 1/10W 220	1	
R6075		ERG3SJ220	M.RESISTOR 3W 22	1	
R6079,80		ERJ6GMYJ103	CHIP 1/10W 10K	2	
R6083		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R6084,85		ERJ6GMYJ561	CHIP 1/10W 560	2	
R6087-89		ERJ6GMYJ272	CHIP 1/10W 2.7K	3	
R6090		ERJ6GMYJ821	CHIP 1/10W 820	1	
R6091		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6093		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R6095		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R6096		ERJ6GMYJ681	CHIP 1/10W 680	1	
R6098		ERJ6GMYJ101	CHIP 1/10W 100	1	
R6099		ERJ6GMYJ201	CHIP 1/10W 200	1	
R7551,52		ERJ6GMYJ473	CHIP 1/10W 47K	2	
R7553		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R7554		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R7555		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7556		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7557		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7569		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R7570		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R7577		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7578		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R7583		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7595		ERJ6GMYJ181	CHIP 1/10W 180	1	
R7597		ERJ6GMYJ102	CHIP 1/10W 1K	1	
			TRANSFORMERS		
T703		EIV5EC008A	TRANSFORMER	1	
T704		EIV5EC011A	TRANSFORMER	1	
T711		EIS5EC004A	TRANSFORMER	1	
T4001		EIQ7QF014Q	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR302		EVN3ACA00B14	V.RESISTOR 10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR701,02		EVNDRAA00B23	V.RESISTOR 2K	2	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR751		EVNDRAA00B53	V.RESISTOR 5K	1	
VR803		EVNDRAA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2002		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2010		EVL51MA00B25	V.RESISTOR 200K	1	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2013		EVNDRAA00B23	V.RESISTOR 2K	1	
VR3012		EVNDRAA00B52	V.RESISTOR 500	1	
VR4001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X710		EFCH36MSP1	CRYSTAL OSCILLATOR	1	
X711		VLF0638	CRYSTAL OSCILLATOR	1	
X712		VLF0637	CRYSTAL OSCILLATOR	1	
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X3001		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0258	CRYSTAL OSCILLATOR	1	
X7504		VSQ0565	SENSOR	1	
			MISCELLANEOUS		
		VSC1068	HEAT SINK	1	(FOR IC6003)
		VWJ0228	FLEXIBLE WIRE 13P	1	(P7502-P7401)
		VEJ0641	REAR JACK	1	
		VJF0215	BINDER	1	
		VSC1689	HEAT SINK	1	(FOR IC2501)
		VMC0075	HEAT SINK SPRING	1	(FOR IC2501)
		VMZ1130	HEAT SINK COVER	1	
		VJR0160	PACK PIN 6P	1	(FOR LUMI&CHRO PACK)
		VJR0130	PACK PIN 12P	1	(FOR LUMI&CHRO PACK)
		VJR0163	PACK PIN 9P	1	(FOR LUMI&CHRO PACK)
		VJR0275	PACK PIN 9P	1	(FOR TV DEMODU. PACK)
		VJR0406	PACK PIN 5P	2	(FOR TV DEMODU. PACK)
		VSC2232	SHIELD CASE (TOP)	1	(FOR TV DEMODU. PACK)
		VSC2233	SHIELD CASE (MAIN)	1	(FOR TV DEMODU. PACK)
		VSC2396	SHIELD CASE (BOTTOM)	1	(FOR TV DEMODU. PACK)
		ENC87907	RF CONVERTER	1	<!>
		ENV77820F2	TUNER	1	<!>
	■	VEP03493AD	MAIN C.B.A.		NV-G45EA <!> (NLA)
			CAPACITORS		
C249		ECCF1H101JC	C.CAPACITOR 50V 100P	1	
C250		ECCF1H271JC	C.CAPACITOR 50V 270P	1	
C251		ECCF1H180JC	C.CAPACITOR 50V 18P	1	
C252		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C253		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C301		ECEA1EKN2R2	E.CAPACITOR 25V 2.2U	1	
C302		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C303		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C304		ECEA0JU331	E.CAPACITOR 6.3V 330U	1	
C305		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C306		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C310		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C311,12		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C313		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C314		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C315		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C317		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C319		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C320		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C321		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C322		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C324		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C325,26		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C327,28		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C329		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C331		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C332		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C333		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C335		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C336		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C337		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C338		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C339		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C340		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C349		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C351		ECCF1H220JC	C.CAPACITOR 50V 22P	1	
C352		ECQB1H562JZ	P.CAPACITOR 50V 5600P	1	
C353		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C360		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C701,02		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C705		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C706		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C707		ECEA1HKS010	E.CAPACITOR 50V 1U	1	
C708,09		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C715-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	6	
C721		ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C732		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C735		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C736		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C737		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUM1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270RSN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUM1H680JPN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C747		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C748		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C749		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C760		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C781		ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C782		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C801		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C814		ECEA1AK101	E.CAPACITOR 10V 100U	1	
C815		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C816		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C817		ECQV1H124JZ	P.CAPACITOR 50V 0.12U	1	
C818		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C819		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C820		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C821		ECEA1HFS4R7	E.CAPACITOR 50V 4.7U	1	
C823		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C824		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C825		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C826		ECEA1AU221	E.CAPACITOR 10V 220U	1	
C827		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C828		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C829		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C831,32		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C1101		ECEA1EK100	E.CAPACITOR 25V 10U	1	
C2022		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2023		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2024		ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C2026		ECQB1H333JH	P.CAPACITOR 50V 0.033U	1	
C2027		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2104		ECEA1CKN100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2105		VCYD1C473MR1	S.CAPACITOR 16V 0.047U	1	
C2106		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2107		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2108		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2109		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2110		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C2112		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2113		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C2114		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2115		ECEA1HKNR33	E.CAPACITOR 50V 0.33U	1	
C2116		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2117		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C2118		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C2119		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C2120		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2121		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2122		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2124,25		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C2126		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2127		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C2129		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C2130		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C2131		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C2132		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2134		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2137		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2138		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2139		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C2140		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2141		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2142,43		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C2146		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C2147		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2148		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2150		VCYD1E223KR	S.CAPACITOR 25V 0.022U	1	
C2153		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2155		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2158		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2172		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C2174		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C2175		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2176		ECQV1H154JZ	P.CAPACITOR 50V 0.15U	1	
C2177		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2178		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C2179		ECUM1E103KBN	C.CAPACITOR CH 25V 0.01U	1	
C2181,82		ECEA0JK470	E.CAPACITOR 6.3V 47U	2	
C2183		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C2184,85		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C2501-03		ECQB1H333JH	P.CAPACITOR 50V 0.033U	3	
C2504-06		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	3	
C2507		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C2508		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2511		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2512-14		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	3	
C2517		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C2519		ECEA25Z47	E.CAPACITOR 25V 4.7U	1	
C2901		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C2902-04		ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	3	
C2905		ECQB1H473JH	P.CAPACITOR 50V 0.047U	1	
C2906		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C2907		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2908-10		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	3	
C2911		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C2912		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3001		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3002		ECEA0JU471	E.CAPACITOR 6.3V 470U	1	
C3003,04		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3007		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3010		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3011		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C3012		ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C3013		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3014		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3015		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C3016		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3019		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3051		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C3053		ECEA0JK101U	E.CAPACITOR 6.3V 100U	1	
C3054		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3064		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C3067,68		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3070		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3077		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C4001		ECQB1H153JH	P.CAPACITOR 50V 0.015U	1	
C4002		ECEA16Z33	E.CAPACITOR 16V 33U	1	
C4003		ECKF1H102ZF	C.CAPACITOR 50V 1000P	1	
C4004		ECQP1332JZ	P.CAPACITOR	1	
C4005		ECCD2H121K	C.CAPACITOR 500V 120P	1	
C4006		ECEA1CK470U	E.CAPACITOR 16V 47U	1	
C4007		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C4008		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C4009		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C4011		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4012		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4013		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	1	
C4015		ECEA1CKL100	E.CAPACITOR 16V 10U	1	
C4016		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4017		ECEA16M10	E.CAPACITOR 16V 10U	1	
C4018		ECQB1H123JH	P.CAPACITOR 50V 0.012U	1	
C4019		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4020		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4021		ECEA1AK470U	E.CAPACITOR 10V 47U	1	
C4022		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4023		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4024,25		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4032		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C4039		VCYD1E103KR	S.CAPACITOR 25V 0.01U	1	
C6001		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6002		VCYD1C103MR1	S.CAPACITOR 16V 0.01U	1	
C6003		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6006		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6007		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6013		ECEA1CK330U	E.CAPACITOR 16V 33U	1	
C6017-19		ECEA0JK470	E.CAPACITOR 6.3V 47U	3	
C6020		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C6023		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6024-26		ECUM1H271KBN	C.CAPACITOR CH 50V 270P	3	
C6027		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C6028		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C6029		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7551		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7552		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C7553		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7554		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7555,56		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7557		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7558		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7559		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7560		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7562,63		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7564		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7565		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7569		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7571		EECS5R5V105	C.CAPACITOR 5.5V 1U	1	
C7590		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C7591		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7592		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7593,94		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	2	
C7596		ECUM1H101KN	C.CAPACITOR CH 50V 100P	1	
			DIODES		
D301		MA4091M	DIODE	1	
D710		MA3100L	DIODE	1	
D712		MA28W	DIODE	1	
D1101,02		MA165	DIODE	2	
D2007		MA165	DIODE	1	
D2014		MA165	DIODE	1	
D2101-06		MA165	DIODE	6	
D3008,09		MA165	DIODE	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D3011		MA165	DIODE	1	
D4001		MA165	DIODE	1	
D4050		MA165	DIODE	1	
D6001		ERA15-01	DIODE	1	
D6002		MA165	DIODE	1	
D6004,05		MA165	DIODE	2	
D6017		ERA15-01	DIODE	1	
D6019		MA4150M	DIODE	1	
D6023,24		MA165	DIODE	2	
D6028,29		MA165	DIODE	2	
D6030		MA4056L	DIODE	1	
D6032		MA165	DIODE	1	
D7554		MA165	DIODE	1	
D7555		MA29WB	DIODE	1	
			DELAY LINE		
DL802		VLD0148	DELAY LINE	1	
			FILTERS		
FL301		ELB4M022	FILTER	1	
FL302		VLF0499	FILTER	1	
FL303		VLF0567	FILTER	1	
FL801		VLF0299	FILTER	1	
FL3001		VLF0413	FILTER	1	
			ICS		
IC301		VEFH03D	HIC	1	
IC303		MSM6965-3RS	IC	1	
IC701		M51366SP	IC	1	
IC801		VEFH04A	HIC	1	
IC2101		UPD6160AA606	IC	1	
IC2102		MN15312VPL	IC	1	
IC2103,04		AN6562	IC	2	
IC2501		BA6432S	IC	1	
IC2901		AN3814K	IC	1	
IC3001		BA7004	IC	1	
IC4001		BA7766AS	IC	1	
IC6001		MN15362VNK	IC	1	
IC6002		AN6914	IC	1	
IC6003		MN4510B	IC	1	
IC6004		MN12821R	IC	1	
IC7551		AN5043	IC	1	
			COILS		
L202		VLQEL05F101K	COIL 100UH	1	
L301		VLQEL05F101K	COIL 100UH	1	
L302		VLQEL05F220K	COIL 22UH	1	
L303,04		VLQEL05F101K	COIL 100UH	2	
L306		VLQEL05F101K	COIL 100UH	1	
L307		VLQEL05F151K	COIL 150UH	1	
L308		VLQEL05F270K	COIL 27UH	1	
L309,10		VLQEL05F101K	COIL 100UH	2	
L311		VLQEL05F2R2K	COIL 2.2UH	1	
L701,02		ELESP680KA	COIL 68UH	2	
L712		VLQ0305JR82	COIL 0.82UH	1	
L713		VLQ0305JR68	COIL 0.68UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP680KA	COIL 68UH	1	
L804		VLQEL05F150K	COIL 15UH	1	
L805		VLQEL05F101K	COIL 100UH	1	
L806		VLQEL05F681K	COIL 680UH	1	
L808		VLQEL05F470K	COIL 47UH	1	
L809		VLQEL05F331K	COIL 330UH	1	
L810		VLQEL05F101K	COIL 100UH	1	
L811		VLQEL05F470K	COIL 47UH	1	
L812		VLQEL05F681K	COIL 680UH	1	
L2501		VLQEL05F102K	COIL 1000UH	1	
L2502		VLP0074	COIL	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L3001-03		VLQEL05F101K	COIL 100UH	3	
L3005		VLQEL05F120K	COIL 12UH	1	
L3006		VLQEL05F5R6K	COIL 5.6UH	1	
L3007		VLQEL05F101K	COIL 100UH	1	
L3008		VLQEL05F3R3K	COIL 3.3UH	1	
L3012		VLQEL05F101K	COIL 100UH	1	
L4001		VLQEL07F822J	COIL 8200UH	1	
L4002		VLQEL05F471K	COIL 470UH	1	
L7551		VLQEL05F680K	COIL 68UH	1	
L7552		VLQEL05F1R0K	COIL 1UH	1	
			CONNECTORS		
P006		VJS1902	CONNECTOR (FEMALE)	1	
P501		VJF0171T	CONNECTOR	1	
P1001		VJF0171T	CONNECTOR	1	
P1101		VJF0171R	CONNECTOR	1	
P1101		VJP1393T	CONNECTOR(MALE) 13P	1	
P2001		VJP1235T	CONNECTOR(MALE) 8P	1	
P2001		VJS1235T	CONNECTOR (FEMALE)	1	
P2002		VJP1932T	CONNECTOR (MALE)	1	
P2002		VJS1932	CONNECTOR (FEMALE)	1	
P2901		VJS1237T	CONNECTOR	1	
P3001		VJF0171T	CONNECTOR	1	
P3001		VJP1393T	CONNECTOR(MALE) 13P	1	
P4001		VJP1233T	CONNECTOR(MALE) 6P	1	
P6001		VJS2157W	CONNECTOR (FEMALE)	1	
P6002		VJS2149W	CONNECTOR (FEMALE)	1	
P6003		VJP1236T	CONNECTOR(MALE) 9P	1	
P6003		VJS1742T	CONNECTOR	1	
P6202		VJS1742T	CONNECTOR	1	
P7401		VJS1475	CONNECTOR(FEMALE)	1	
P7402		VJS2157W	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q207		2SC3314	TRANSISTOR	1	(B,C)
Q301		2SB709	TRANSISTOR CHIP	1	
Q302,03		2SC2295	TRANSISTOR CHIP	2	(B,C)
Q304		2SD601	TRANSISTOR CHIP	1	(Q,R,S)
Q703		2SD601	TRANSISTOR	1	(S,T)
Q710		2SC2377	TRANSISTOR	1	(C,D)
Q712		2SD638	TRANSISTOR	1	
Q713		2SD1328	TRANSISTOR	1	
Q714		2SD601	TRANSISTOR CHIP	1	
Q771		2SD601	TRANSISTOR CHIP	1	
Q804		2SB709	TRANSISTOR CHIP	1	
Q2001		2SB709	TRANSISTOR CHIP	1	
Q2002-04		2SD601	TRANSISTOR CHIP	3	
Q2006		2SD1330	TRANSISTOR	1	(S,T)
Q2108		2SD601	TRANSISTOR CHIP	1	
Q2111,12		2SD601	TRANSISTOR CHIP	2	
Q3002		2SC2295	TRANSISTOR	1	
Q3004		2SB709	TRANSISTOR CHIP	1	
Q3006		2SC2295	TRANSISTOR	1	
Q3007		2SB641	TRANSISTOR	1	
Q3014		2SA564	TRANSISTOR	1	(P,Q,R)
Q4001		2SD602	TRANSISTOR	1	(R)
Q6006		2SB641	TRANSISTOR	1	
Q6007		2SB643	TRANSISTOR	1	
Q6009		2SB643	TRANSISTOR	1	(R,S)
Q6016		2SD1275	TRANSISTOR	1	(P,Q)
Q6017		2SD893	TRANSISTOR	1	
Q6018		2SD973	TRANSISTOR	1	(S)
Q6019		2SD638	TRANSISTOR	1	
Q6020		2SD973	TRANSISTOR	1	(S)
			COMBINATION PARTS		
QR701,02		UN2213	TRANSISTOR-RESISTOR	2	
QR711,12		UN2212	TRANSISTOR-RESISTOR	2	
QR713		UN2211	TRANSISTOR-RESISTOR	1	
QR1101		UN2213	TRANSISTOR-RESISTOR	1	
QR2002		UN2212	TRANSISTOR-RESISTOR	1	
QR2007		UN2213	TRANSISTOR-RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR2101,02		UN2113	TRANSISTOR-RESISTOR	2	
QR2103		UN2212	TRANSISTOR-RESISTOR	1	
QR2104		UN2110	TRANSISTOR-RESISTOR	1	
QR2105		UN2117	TRANSISTOR-RESISTOR	1	
QR2106		UN2115	TRANSISTOR-RESISTOR	1	
QR2107		UN2110	TRANSISTOR-RESISTOR	1	
QR3004		UN2111	TRANSISTOR-RESISTOR	1	
QR6001		UN2212	TRANSISTOR-RESISTOR	1	
QR6005		UN2213	TRANSISTOR-RESISTOR	1	
QR6006		UN2111	TRANSISTOR-RESISTOR	1	
QR6008		UN2119	TRANSISTOR-RESISTOR	1	
QR6011		UN2212	TRANSISTOR-RESISTOR	1	
QR6012		UN2113	TRANSISTOR-RESISTOR	1	
QR7561		UN2211	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R262		ERDS2TJ682	C.RESISTOR 1/4W 6.8K	1	
R263		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R264		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
R265		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R301		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R302		ERJ6GMYJ391	CHIP 1/10W 390	1	
R303		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R304		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R305		ERJ6GMYJ824	CHIP 1/10W 820K	1	
R306		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R307		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R308		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R309		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R310		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R311		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R312		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R316		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R317		ERJ6GMYJ471	CHIP 1/10W 470	1	
R325		ERJ6GMYJ151	CHIP 1/10W 150	1	
R326		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R327		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R328		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R329		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R330		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R331		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R332		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R334,35		ERJ6GMYJ102	CHIP 1/10W 1K	2	
R338		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R339		ERJ6GMYJ101	CHIP 1/10W 100	1	
R707		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R712		ERJ6GEYJ682	CHIP 1/10W 6.8K	1	
R713		ERJ6GEYJ681	CHIP 1/10W 680	1	
R714		ERD2FCG330	C.RESISTOR 2W 33	1	
R715		ERJ6GEYJ271	CHIP 1/10W 270	1	
R716		ERJ6GEYJ272	CHIP 1/10W 2.7K	1	
R717		ERJ6GEYJ332	CHIP 1/10W 3.3K	1	
R718		ERJ6GEYJ754	CHIP 1/10W 750K	1	
R719		ERJ6GEYJ682	CHIP 1/10W 6.8K	1	
R720		ERJ6GEYJ822	CHIP 1/10W 8.2K	1	
R721		ERJ6GEYJ392	CHIP 1/10W 3.9K	1	
R722		ERJ6GEYJ432	CHIP 1/10W 4.3K	1	
R723		ERJ6GEYJ183	CHIP 1/10W 180K	1	
R724		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R725		ERJ6GEYJ182	CHIP 1/10W 1.8K	1	
R726		ERJ6GEYJ472	CHIP 1/10W 4.7K	1	
R727		ERJ6GEYJ471	CHIP 1/10W 470	1	
R728		VRE0040E471	W.RESISTOR 470	1	
R729,30		ERJ6GEYJ331	CHIP 1/10W 330	2	
R737		ERJ6GEYJ274	CHIP 1/10W 270K	1	
R738		ERJ6GEYJ334	CHIP 1/10W 330K	1	
R739		ERJ6GEYJ681	CHIP 1/10W 680	1	
R740		ERJ6GEYJ473	CHIP 1/10W 47K	1	
R741,42		ERJ6GEYJ272	CHIP 1/10W 2.7K	2	
R743		ERJ6GEYJ470	CHIP 1/10W 47	1	
R744		ERJ6GEYJ821	CHIP 1/10W 820	1	
R745		ERJ6GEYJ331	CHIP 1/10W 330	1	
R746		VRE0040E151	W.RESISTOR 150	1	
R750		ERJ6GEYJ182	CHIP 1/10W 1.8K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R757		ERJ6GEYJ222	CHIP 1/10W 2.2K	1	
R759		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R760		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R763		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R764		ERJ6GEYJ822	CHIP 1/10W 8.2K	1	
R772		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R773		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R781		ERJ6GEYJ271	CHIP 1/10W 270	1	
R782		ERJ6GEYJ471	CHIP 1/10W 470	1	
R791		ERJ6GEYJ750	CHIP 1/10W 75	1	
R792		ERJ6GEYJ120	CHIP 1/10W 12	1	
R815		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R816		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R818		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R819		ERJ6GMYJ182	CHIP 1/10W 1.8K	1	
R820		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R821,22		ERJ6GMYJ103	CHIP 1/10W 10K	2	
R823		ERJ6GMYJ271	CHIP 1/10W 270	1	
R824		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R825		ERJ6GMYJ182	CHIP 1/10W 1.8K	1	
R826		ERJ6GMYJ681	CHIP 1/10W 680	1	
R1101		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2007		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2008		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R2009		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2010		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R2011		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2029		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2030		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2031		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R2032		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R2033		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2034		ERJ6GMYJ391	CHIP 1/10W 390	1	
R2037		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2038		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2046		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R2047,48		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2049		ERJ6GMYJ273	CHIP 1/10W 27K	1	
R2050		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2051		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2054		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2056		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R2106		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R2108		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2109		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R2110		ERJ6GMYJ274	CHIP 1/10W 270K	1	
R2111		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R2112,13		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2114		ERJ6GMYJ224	CHIP 1/10W 220K	1	
R2115		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R2117		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2119		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2120		ERJ6GMYJ274	CHIP 1/10W 270K	1	
R2121		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R2122,23		ERJ6GMYJ332	CHIP 1/10W 3.3K	2	
R2124		ERJ6GMYJ561	CHIP 1/10W 560	1	
R2125		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2131		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R2132,33		ERJ6GMYJ563	CHIP 1/10W 56K	2	
R2134		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2135		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R2136,37		ERJ6GMYJ154	CHIP 1/10W 150K	2	
R2138		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R2139		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R2140		ERJ6GMYG333	CHIP 1/10W 33K	1	
R2141		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R2142		ERJ6GMYJ154	CHIP 1/10W 150K	1	
R2143		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2144,45		ERJ6GMYJ223	CHIP 1/10W 22K	2	
R2146		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2147		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R2148		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R2149		ERJ6GMYG472	M.RESISTOR CH1/10W 4.7K	1	
R2150		ERJ6GMYJ821	CHIP 1/10W 820	1	
R2151		ERJ6GMYJ824	CHIP 1/10W 820K	1	
R2153		ERJ6GMYJ684	CHIP 1/10W 680K	1	
R2156		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R2157		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R2158		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2159,60		ERJ6GMYJ223	CHIP 1/10W 22K	2	
R2161		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R2166,67		ERJ6GMYJ563	CHIP 1/10W 56K	2	
R2168,69		ERJ6GMYJ562	CHIP 1/10W 5.6K	2	
R2174		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2177		ERJ6GMYJ681	CHIP 1/10W 680	1	
R2178		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R2179		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R2181		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2182		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R2183		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R2184		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2185		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R2186,87		ERJ6GMYJ222	CHIP 1/10W 2.2K	2	
R2188		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R2189		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R2190		ERJ6GMYJ821	CHIP 1/10W 820	1	
R2191		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R2192		ERJ6GMYJ472	CHIP 1/10W 4.7K	1	
R2193		ERJ6GMYJ564	M.RESISTOR CH1/10W 560K	1	
R2501-03		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2504		ERDS1TJ1R0	C.RESISTOR 1/2W 1.0	1	
R2505		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R2506		ERJ6GMYG512	CHIP 1/10W 5.1K	1	
R2518		ERJ6GMYJ330	CHIP 1/10W 33	1	
R2901-03		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2906		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R2907		ERX12SJR68	M.RESISTOR 1/2W 0.68	1	
R3009		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R3010		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R3011		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3018		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R3019		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3022,23		ERJ6GMYJ821	CHIP 1/10W 820	2	
R3028		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3029		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R3030		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3032		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R3033		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R3034		ERJ6GMYJ333	CHIP 1/10W 33K	1	
R3035		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3036		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R3037		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3040		ERJ6GMYJ750	CHIP 1/10W 75	1	
R3042		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R3051,52		ERJ6GMYJ750	CHIP 1/10W 75	2	
R3054		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R3062		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R3063		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R3064		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R3065		ERJ6GMYJ561	CHIP 1/10W 560	1	
R3084		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R3085		ERJ6GMYJ221	CHIP 1/10W 220	1	
R3087,88		ERJ6GMYJ222	CHIP 1/10W 2.2K	2	
R4001		ERJ6GMYJ183	CHIP 1/10W 18K	1	
R4002		ERJ6GMYJ100	CHIP 1/10W 10	1	
R4003		ERJ6GMYJ203	CHIP 1/10W 2K	1	
R4004		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4005		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R4006		ERJ6GMYJ151	CHIP 1/10W 150	1	
R4007		ERJ6GMYJ221	CHIP 1/10W 220	1	
R4008		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R4009		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R4010		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R4012		ERJ6GMYJ331	CHIP 1/10W 330	1	
R4013		ERJ6GMYJ334	CHIP 1/10W 330K	1	
R4014		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R4015		ERJ6GMY0R00	M.RESISTOR CH1/10W 0.00	1	
R4016		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R4017		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R4018		ERJ6GMYJ223	CHIP 1/10W 22K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4019		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4020		ERJ6GMYJ563	CHIP 1/10W 56K	1	
R4021		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R4022		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R4023		ERJ6GMYG473	CHIP 1/10W 47K	1	
R4024,25		ERJ6GMYG104	CHIP 1/10W 100K	2	
R4051		ERJ6GMYJ123	CHIP 1/10W 12K	1	
R4052		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R4054		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R4055		ERJ6GMYJ681	CHIP 1/10W 680	1	
R6001		ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R6002		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R6006		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6007		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R6008		ERJ6GMYJ181	CHIP 1/10W 180	1	
R6009		ERJ6GMYJ561	CHIP 1/10W 560	1	
R6010		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R6011		ERJ6GMYJ221	CHIP 1/10W 220	1	
R6014		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R6017		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6022		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6023		ERJ6GMYJ683	CHIP 1/10W 68K	1	
R6024		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6025		ERJ6GMYJ824	CHIP 1/10W 820K	1	
R6026		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R6027		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R6028		ERJ6GMYJ184	CHIP 1/10W 180K	1	
R6029		ERJ6GMYJ561	CHIP 1/10W 560	1	
R6030,31		ERJ6GMYJ153	CHIP 1/10W 15K	2	
R6032		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6033,34		ERJ6GMYJ333	CHIP 1/10W 33K	2	
R6035-37		ERJ6GMYJ101	CHIP 1/10W 100	3	
R6038		ERJ6GMYJ272	CHIP 1/10W 2.7K	1	
R6041		ERJ6GMYJ391	CHIP 1/10W 390	1	
R6042		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6045		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6046		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R6050		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6051		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R6060		ERJ6GMYJ822	CHIP 1/10W 8.2K	1	
R6067		ERJ6GMYJ101	CHIP 1/10W 100	1	
R6068		ERDS1TJ332	C.RESISTOR 1/2W 3.3K	1	
R6069		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6070		ERJ6GMYJ471	CHIP 1/10W 470	1	
R6071		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R6072		ERJ6GMYJ562	CHIP 1/10W 5.6K	1	
R6073		ERJ6GMYJ131	CHIP 1/10W 130	1	
R6074		ERJ6GMYJ221	CHIP 1/10W 220	1	
R6075		ERG3SJ220	M.RESISTOR 3W 22	1	
R6079,80		ERJ6GMYJ103	CHIP 1/10W 10K	2	
R6083		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R6084,85		ERJ6GMYJ561	CHIP 1/10W 560	2	
R6087-89		ERJ6GMYJ272	CHIP 1/10W 2.7K	3	
R6090		ERJ6GMYJ821	CHIP 1/10W 820	1	
R6091		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R6093		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R6095		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R6096		ERJ6GMYJ681	CHIP 1/10W 680	1	
R6098		ERJ6GMYJ101	CHIP 1/10W 100	1	
R6099		ERJ6GMYJ201	CHIP 1/10W 200	1	
R7551,52		ERJ6GMYJ473	CHIP 1/10W 47K	2	
R7553		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R7554		ERJ6GMYJ124	CHIP 1/10W 120K	1	
R7555		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7556		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7557		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7569		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R7570		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R7577		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R7578		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R7583		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7595		ERJ6GMYJ181	CHIP 1/10W 180	1	
R7597		ERJ6GMYJ102	CHIP 1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TRANSFORMERS		
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A1	TRANSFORMER	1	
T711		EIS5EC004A	TRANSFORMER	1	
T4001		EIQ7QF014Q	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR302		EVN3ACA00B14	V.RESISTOR 10K	1	
VR701,02		EVNDRAA00B23	V.RESISTOR 2K	2	
VR741		EVNDRAA00B14	V.RESISTOR 10K	1	
VR751		EVNDRAA00B53	V.RESISTOR 5K	1	
VR803		EVNDRAA00B14	V.RESISTOR 10K	1	
VR2001		EVNDRAA00B54	V.RESISTOR 50K	1	
VR2002		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2010		EVL51MA00B25	V.RESISTOR 200K	1	
VR2011		EVNDRAA00B15	V.RESISTOR 100K	1	
VR2013		EVNDRAA00B23	V.RESISTOR 2K	1	
VR3012		EVNDRAA00B52	V.RESISTOR 500	1	
VR4001		EVNDRAA00B14	V.RESISTOR 10K	1	
VR4002		EVNDRAA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X201		VSX0066	CRYSTAL OSCILLATOR	1	
X301		VSX0225	CRYSTAL OSCILLATOR	1	
X710		EFCH38MSP1	SAW FILTER	1	
X711		EFCS5R5MW5	FILTER	1	
X712		EFCS5R5MS5	FILTER	1	
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X3001		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0258	CRYSTAL OSCILLATOR	1	
X7504		VSQ0565	SENSOR	1	
			MISCELLANEOUS		
		VSC1068	HEAT SINK	1	(FOR IC6003)
		VWJ0228	FLEXIBLE WIRE 13P	1	(P7502-P7401)
		VEJ0642	REAR JACK	1	
		VJF0215	BINDER	1	
		VSC1689	HEAT SINK	1	(FOR IC2501)
		VMC0075	HEAT SINK SPRING	1	(FOR IC2501)
		VMZ1130	HEAT SINK COVER	1	
		VJR0160	PACK PIN 6P	1	(FOR LUMI&CHRO PACK)
		VJR0130	PACK PIN 12P	1	(FOR LUMI&CHRO PACK)
		VJR0163	PACK PIN 9P	1	(FOR LUMI&CHRO PACK)
		VJR0275	PACK PIN 9P	1	(FOR TV DEMODU. PACK)
		VJR0406	PACK PIN 5P	2	(FOR TV DEMODU. PACK)
		VSC2232	SHIELD CASE (TOP)	1	(FOR TV DEMODU. PACK)
		VSC2233	SHIELD CASE (MAIN)	1	(FOR TV DEMODU. PACK)
		VSC2396	SHIELD CASE (BOTTOM)	1	(FOR TV DEMODU. PACK)
		ENC87906	RF CONVERTER	1	<!>
		ENV77817F2	TUNER	1	<!>
	■	VEP07425A	TIMER C.B.A.		(NLA)
			CAPACITORS		
C6701		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6702		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C6703		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C6704		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C7501		ECRHA030E41	TRIMMER	1	
C7502		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C7503		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7505		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7506		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C7507		ECEA1HK220	E.CAPACITOR 50V 22U	1	
C7508		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7509		ECUM1H331KBN	C.CAPACITOR CH 50V 330P	1	
C7510		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7511		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7520		ECEA1HKR22	E.CAPACITOR 50V 0.22U	1	
C7521		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7523		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
			DIODES		
D6701		PN323B	PHOTO DIODE	1	
D7501		ERA15-01	DIODE	1	
D7502		MA165	DIODE	1	
D7503		MA4075M	DIODE	1	
D7506-13		MA165	DIODE	8	
D7535,36		MA165	DIODE	2	
D7538		MA165	DIODE	1	
			DISPLAY TUBE		
DP7501		VSL0113	DISPLAY TUBE	1	
			ICS		
IC6701		UPC1490HA	IC	1	
IC7501		MN15283VYHA	IC	1	
IC7502		MN1220	IC	1	
IC7503		MN1280P	IC	1	
IC7505		MN1280T	IC	1	
			COIL		
L7501		VLQEL05F221K	COIL 220UH	1	
			CONNECTORS		
P7501		VJS1903	CONNECTOR	1	
P7502		VJS1491	CONNECTOR(FEMALE)	1	
P7504		VJS1937	CONNECTOR (FEMALE)	1	
			TRANSISTOR		
Q7501		2SD601	TRANSISTOR CHIP	1	
			COMBINATION PARTS		
QR7501		UN2112	TRANSISTOR-RESISTOR	1	
QR7509		UN2113	TRANSISTOR-RESISTOR	1	
QR7510,11		UN2213	TRANSISTOR-RESISTOR	2	
			RESISTORS		
R6701		ERDS2TJ154	C.RESISTOR 1/4W 150K	1	
R6702		ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1	
R7501		ERJ6GMYJ122	CHIP 1/10W 1.2K	1	
R7502		ERJ6GMYJ224	CHIP 1/10W 220K	1	
R7503		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7504		ERJ6GMYJ103	CHIP 1/10W 10K	1	
R7505		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7509		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R7510		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R7511-14		ERJ6GMYJ182	CHIP 1/10W 1.8K	4	
R7515		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R7519		ERJ6GMYJ104	CHIP 1/10W 100K	1	
R7520-22		ERJ6GMYJ103	CHIP 1/10W 10K	3	
R7530		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R7531		ERDS1TJ2R7	C.RESISTOR 1/2W 2.7	1	
R7532		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7538		ERJ6GMYJ221	CHIP 1/10W 220	1	
R7540		ERJ6GMYJ473	CHIP 1/10W 47K	1	
R7543		ERJ6GMYJ102	CHIP 1/10W 1K	1	
			SWITCHES		
SW7514-19		EVQQS307K	SWITCH	6	
SW7524,25		EVQQS307K	SWITCH	2	
SW7539		EVQQS307K	SWITCH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			VARIABLE RESISTOR		
VR6701		EVMLGGA00B15	V.RESISTOR 100K	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0398	FIP HOLDER	1	
		VGQ1086	SHAFT (C)	1	
		VKC0328	HINGE	1	
		VKC0327	HINGE	1	
		VSC1928	SHIELD CASE (BOTTOM)	1	(FOR IR RECEIVER)
		VSC2059	SHIELD CASE (MAIN)	1	(FOR IR RECEIVER)
	■	VEP06463B	OPERATION C.B.A.		(NLA)
			DIODES		
D6201		LN28RCPP	LED	1	
D6202		LN38GCPPSVT	LED	1	
D6203,04		MA165	DIODE	2	
			CONNECTORS		
P6201		VJS1995	CONNECTOR	1	
P6202		VJP1249T	CONNECTOR(MALE) 9P	1	
			RESISTORS		
R6201,02		ERJ6GMYJ181	CHIP 1/10W 180	2	
R6203		ERJ6GMYJ102	CHIP 1/10W 1K	1	
			SWITCHES		
SW6201,02		EVQQS307K	SWITCH	2	
SW6203		ESD14314	SWITCH	1	
			VARIABLE RESISTORS		
VR2007,08		EVUFSAEC4B15	V.RESISTOR 1M	2	
VR3004		EVUJ16EC4B24	V.RESISTOR 20K	1	
			MISCELLANEOUS		
		VGU3364	SLIDE SW KNOB	1	
		VMD0504	LED HOLDER	2	(FOR D6201,D6202)
		VGQ1084	SHAFT (A)	1	
		VGQ1085	SHAFT (B)	1	
	■	VEP05120A	HEAD AMP PACK C.B.A.		(NLA)
			CAPACITORS		
C501		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C502		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C503		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C504		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C505		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C506		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C507		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C508		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C509		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C512		VCYD1C104MR1	S.CAPACITOR 16V 0.1U	1	
C514		ECEA1CK100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C515,16		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C517,18		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C519,20		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C521		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C522		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C523-26		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	4	
C527,28		ECUM1H102ZFN	C.CAPACITOR CH 50V 1000P	2	
C529		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C530		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C531,32		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C533		ECUM1H102ZFN	C.CAPACITOR CH 50V 1000P	1	
C534		ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C535		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C536		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C599		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
			IC		
IC501		BA7254S	IC	1	
			COILS		
L501		VLQEL05F101K	COIL 100UH	1	
L502		VLQEL05F820K	COIL 82UH	1	
L503		VLQEL05F151K	COIL 150UH	1	
L505		VLQEL05F101K	COIL 100UH	1	
L506		VLQEL05F270K	COIL 27UH	1	
			CONNECTORS		
P002		VJS1449	CONNECTOR(FEMALE)	1	
P501		VJP1393T	CONNECTOR(MALE) 13P	1	
			TRANSISTOR		
Q501		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
			RESISTORS		
R501		ERJ6GMYJ561	CHIP 1/10W 560	1	
R502		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R503		ERJ6GMYJ222	CHIP 1/10W 2.2K	1	
R504		ERJ6GMYJ331	CHIP 1/10W 330	1	
R505		ERJ6GMYJ330	CHIP 1/10W 33	1	
R506		ERJ6GMYJ680	CHIP 1/10W 68	1	
R507		ERJ6GMYJ471	CHIP 1/10W 470	1	
R512		ERJ6GMYJ561	CHIP 1/10W 560	1	
R515		ERJ6GMYJ561	CHIP 1/10W 560	1	
R516		ERJ6GMYJ821	CHIP 1/10W 820	1	
R517,18		ERJ6GMYJ100	CHIP 1/10W 10	2	
R519		ERJ6GMYJ821	CHIP 1/10W 820	1	
R520		ERJ6GMYJ391	CHIP 1/10W 390	1	
R521		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R522		ERJ6GMYJ204	M.RESISTOR CH1/10W 200K	1	
R523		ERJ6GMYJ223	CHIP 1/10W 22K	1	
R524		ERJ6GMYJ152	CHIP 1/10W 1.5K	1	
R526-29		ERJ6GMYJ222	CHIP 1/10W 2.2K	4	
R532		ERJ6GMYJ392	CHIP 1/10W 3.9K	1	
R543		ERJ6GMYJ821	CHIP 1/10W 820	1	
			VARIABLE RESISTORS		
VR501		EVND1AA00B23	V.RESISTOR 2K	1	
VR502		EVND1AA00B22	V.RESISTOR 200	1	
			MISCELLANEOUS		
		VSC2353	SHIELD CASE (TOP)	1	
		VSC2354	SHIELD CASE (MAIN)	1	
		VSC2355	SHIELD CASE (BOTTOM)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP01310E	POWER C.B.A.		NV-G45A <!> (NLA)
			CAPACITORS		
C1002		ECQU2A683MN	P.CAPACITOR 100V 0.068U	1	
C1003		ECEA2AGE010	E.CAPACITOR 100V 1U	1	
C1004,05		VCC0016	.CAPACITOR V	2	
C1006-08		VCC0021	.CAPACITOR V	3	
C1009		ECOS2GU820JZ	C.CAPACITOR 400V 82P	1	
C1010		ECKD3D331KBN	C.CAPACITOR 2KV 330P	1	
C1011		ECQE6473MZ	P.CAPACITOR 630V 0.047U	1	
C1012		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1013		ECEA1AGE470	E.CAPACITOR 10V 47U	1	
C1014		ECQB1H472KH	P.CAPACITOR 50V 4700P	1	
C1016		ECQP1101JZ	P.CAPACITOR	1	
C1017		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1018		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1019		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1020		ECEA0JEE331	E.CAPACITOR 6.3V 330U	1	
C1021		ECEA1HGE101	E.CAPACITOR 50V 100U	1	
C1022		ECEA1DFZ681Z	E.CAPACITOR 20V 680U	1	
C1023-25		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	3	
C1026		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1027		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1028		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1029		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1033		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C1035		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
			DIODES		
D1002		MA178	DIODE	1	
D1004		S1WBA60	DIODE	1	
D1007		ERA22-02	DIODE	1	
D1008		RL4Z	DIODE	1	
D1009		MA185	DIODE	1	
D1010,11		AK04	DIODE	2	
D1012		MA2200B	DIODE	1	
D1013		MA4130L	DIODE	1	
D1014		VSD0002	DIODE	1	
D1015		AP01C	DIODE	1	
D1017		SV03YS	DIODE	1	
			IC		
IC1001		STK5340	IC	1	
			COILS		
L1001		ELF18D290A	FILTER	1	
L1002		ELC07D220	COIL 22U	1	
			CONNECTOR		
P1001		VJP1394T	CONNECTOR(MALE)	1	
			TRANSISTORS		
Q1001		STRD1806E	TRANSISTOR	1	
Q1003		2SD1273	TRANSISTOR	1	(P)
Q1004		2SD1330	TRANSISTOR	1	
			COMBINATION PARTS		
QR1001		DTA143	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R1002		ERG1SJ823	M.RESISTOR 1W 82K	1	
R1003		ERG2SJ823	M.RESISTOR 2W 82K	1	
R1004		ERW1PKR39	W.RESISTOR	1	
R1005,06		ERDS2TJ563	C.RESISTOR 1/4W 56K	2	
R1007		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R1008		ERG2SJ181	M.RESISTOR 2W 180	1	
R1012		ERG3ANJ683	M.RESISTOR 3W 68K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R1013		ERF2AK2R2	W.RESISTOR 2W 2.2	1	
R1014		ERDS2TJ153	C.RESISTOR 1/4W 15K	1	
R1015,16		ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R1018		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1019		ERG12ANJ182	M.RESISTOR 1/2W 1800	1	
			TRANSFORMER		
T1001		VLT0515	TRANSFORMER	1	
			MISCELLANEOUS		
		VMZ1183	CAPACITOR COVER	2	<!>
		VMZ1184	CAPACITOR COVER	1	<!>
		VJS1973	AC INLET	1	<!>
		VJF0318	FUSE HOLDER	2	<!>
	■	VEP01310F	POWER C.B.A.		NV-G45EA <!> (NLA)
			CAPACITORS		
C1001,02		ECQU2A683MN	P.CAPACITOR 100V 0.068U	2	
C1003		ECEA2AGE010	E.CAPACITOR 100V 1U	1	
C1004,05		VCC0016	.CAPACITOR V	2	
C1006-08		VCC0021	.CAPACITOR V	3	
C1009		ECOS2GU820JZ	C.CAPACITOR 400V 82P	1	
C1010		ECKD3D331KBN	C.CAPACITOR 2KV 330P	1	
C1011		ECQE6473MZ	P.CAPACITOR 630V 0.047U	1	
C1012		ECEA1CGE470	E.CAPACITOR 16V 47U	1	
C1013		ECEA1AGE470	E.CAPACITOR 10V 47U	1	
C1014		ECQB1H472KH	P.CAPACITOR 50V 4700P	1	
C1016		ECQP1101JZ	P.CAPACITOR	1	
C1017		ECEA1DFZ681X	E.CAPACITOR 20V 680U	1	
C1018		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1019		ECEA1AFZ331X	E.CAPACITOR 10V 330U	1	
C1020		ECEA0JEE331	E.CAPACITOR 6.3V 330U	1	
C1021		ECEA1HGE101	E.CAPACITOR 50V 100U	1	
C1022		ECEA1DFZ681Z	E.CAPACITOR 20V 680U	1	
C1023-25		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	3	
C1026		ECEA1HGE100	E.CAPACITOR 50V 10U	1	
C1027		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1028		ECEA1CGE100	E.CAPACITOR 16V 10U	1	
C1029		ECEA1AGE101	E.CAPACITOR 10V 100U	1	
C1033		ECEA1CGE101	E.CAPACITOR 16V 100U	1	
C1035		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
			DIODES		
D1001		ENB461D-05A	SURGE ABSORBER 460V	1	
D1002		MA178	DIODE	1	
D1004		S1WBA60	DIODE	1	
D1007		ERA22-02	DIODE	1	
D1008		RL4Z	DIODE	1	
D1009		MA185	DIODE	1	
D1010,11		AK04	DIODE	2	
D1012		MA2200B	DIODE	1	
D1013		MA4130L	DIODE	1	
D1014		VSD0002	DIODE	1	
D1015		AP01C	DIODE	1	
D1017		SV03YS	DIODE	1	
			IC		
IC1001		STK5340	IC	1	
			COILS		
L1001		ELF18D290A	FILTER	1	
L1002		ELC07D220	COIL 22U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CONNECTOR		
P1001		VJP1394T	CONNECTOR(MALE)	1	
			TRANSISTORS		
Q1001		STRD1806E	TRANSISTOR	1	
Q1003		2SD1273	TRANSISTOR	1	(P)
Q1004		2SD1330	TRANSISTOR	1	
			COMBINATION PARTS		
QR1001		DTA143	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R1001		ERC12GM334	S.RESISTOR 1/2W 330K	1	
R1002		ERG1SJ823	M.RESISTOR 1W 82K	1	
R1003		ERG2SJ823	M.RESISTOR 2W 82K	1	
R1004		ERW1PKR39	W.RESISTOR	1	
R1005,06		ERDS2TJ563	C.RESISTOR 1/4W 56K	2	
R1007		ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R1008		ERG2SJ181	M.RESISTOR 2W 180	1	
R1012		ERG3ANJ683	M.RESISTOR 3W 68K	1	
R1013		ERF2AK2R2	W.RESISTOR 2W 2.2	1	
R1014		ERDS2TJ153	C.RESISTOR 1/4W 15K	1	
R1015,16		ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R1018		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R1019		ERG12ANJ182	M.RESISTOR 1/2W 1800	1	
			TRANSFORMER		
T1001		VLT0515	TRANSFORMER	1	
			MISCELLANEOUS		
		VMZ1183	CAPACITOR COVER	2	<!>
		VMZ1184	CAPACITOR COVER	1	<!>
		VJS1973	AC INLET	1	<!>
		VJF0318	FUSE HOLDER	2	<!>
	■	VEP66030A	REMOTE CONTROL C.B.A.		(NLA)
			CAPACITORS		
C1		ECEA0GKS101	E.CAPACITOR 4V 100U	1	
C2,C3		ECKF1H121KB	C.CAPACITOR 50V 120P	2	
C4		ECQB1H222KH	P.CAPACITOR 50V 2200P	1	
			DIODES		
D1		LN66	LED	1	
D2-D9		MA165	DIODE	8	
			IC		
IC1		MN6011M	IC	1	
			COMBINATION PART		
QR1		UN1231	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R1		ERDS2TJ1R0	C.RESISTOR 1/4W 1.0	1	
			CRYSTAL OSCILLATOR		
X1		VSX0201	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VJR0253	ELECTRODE (+)	1	
		VJR0254	ELECTRODE (-)	1	
	■	VEP66039B	DIGITAL SCANNER C.B.A.		(NLA)
			CAPACITORS		
C01		ECEV1CA470P	E.CAPACITOR 16V 47U	1	
C02		ECEV1HAN010R	E.CAPACITOR 50V 1U	1	
C03,04		ECUM1E104ZFM	C.CAPACITOR CH 25V 0.1U	2	
C05		ECSE1CY105Z	T.CAPACITOR 16V 1U	1	
C06		ECEV1CA470P	E.CAPACITOR 16V 47U	1	
C07,08		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C09-12		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
			DIODES		
D01		MA151WK	DIODE	1	
D04		MA151WK	DIODE	1	
D05		MA153	DIODE	1	
D06		SE303ACY	DIODE	1	
			ICS		
IC01		MN158453VPB	IC	1	
IC02		UPC324G2	IC	1	
IC03		RC78L02UAA1	IC	1	
			COIL		
L01		ELT3K017B	COIL	1	
			LCD DISPLAY		
LCD01		VSL0131	LCD DISPLAY	1	
			TRANSISTORS		
Q01,02		2SB710	TRANSISTOR CHIP	2	(Q,R,S)
Q03		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
Q05		2SB709	TRANSISTOR CHIP	1	(Q,R,S)
			COMBINATION PART		
QR04		FA1L4Z	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R01		ERJ6GMYJ560	CHIP 1/10W 56	1	
R02		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R03		ERJ6GMYJ153	CHIP 1/10W 15K	1	
R04		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R05		ERJ6GMYJ202	CHIP 1/10W 2K	1	
R06		ERJ6GMYJ244	CHIP 1/10W 240K	1	
R07		ERJ6GMYJ162	CHIP 1/10W 1.6K	1	
R08		ERJ6GMYJ224	CHIP 1/10W 220K	1	
R09		ERJ6GMYJ474	CHIP 1/10W 470K	1	
R10		ERJ6GMYK106	CHIP 1/10W 10M	1	
R11		ERJ6GMYJ105	CHIP 1/10W 1M	1	
R12		ERJ6GMYK106	CHIP 1/10W 10M	1	
R13		ERJ6GMYJ361	CHIP 1/10W 360	1	
R14		ERJ6GMYJ682	CHIP 1/10W 6.8K	1	
R15		ERJ6GMYJ332	CHIP 1/10W 3.3K	1	
R16,17		ERJ6GMYJ682	CHIP 1/10W 6.8K	2	
R18		ERJ8GCYJ120	CHIP 1/8W 12	1	
R19		ERJ6GMYJ474	CHIP 1/10W 470K	1	
R21		ERJ6GMYJ474	CHIP 1/10W 470K	1	
R23		ERJ6GMYJ681	CHIP 1/10W 680	1	
R24		ERJ6GMYJ102	CHIP 1/10W 1K	1	
R29		ERJ8GCYJ150	CHIP 1/8W 15	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			SENSOR		
SN01		VSQ0567	SENSOR	1	
			SWITCHES		
SW01		VSS0126	SWITCH	1	
SW02		EVQQFV02K	SWITCH	1	
			VARIABLE RESISTOR		
VR09		EVND4KA00B25	V.RESISTOR 200K	1	
			CRYSTAL OSCILLATORS		
X01		VSX0246	CRYSTAL OSCILLATOR	1	
X02		EFBAL30D001K	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VGQ1406	TERMINAL BASE	1	
		VJR0401	TERMINAL ANGLE	2	
		VMX1324	SPACER	1	
	■	VEK3583	MECHANISM CONNECTION C.B.A.		
			CONNECTORS		
P1504		VJS2342	CONNECTOR	1	
P1505		VJP1242	CONNECTOR	1	
			RESISTORS		
R1501		ERJ8GCYJ223	CHIP 22K	1	
		VEK3555	REEL SENSOR C.B.A.	1	
			INTEGRATED CIRCUIT		
IC1501		ON2170	IC	1	
			CONNECTOR		
P1506		VJP1242T	CONNECTOR	1	
	■	VXA2689	LED C.B.A.		
			DIODE		
D1501		GL450	PHOTO DIODE	1	
			MISCELLANEOUS		
		VMD0911	LED HOLDER	1	
	■	VEK3578	SUPPLY PHOTO Tr. C.B.A.		
			CAPACITOR		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1501		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
			TRANSISTOR		
Q1501		PN150NV	TRANSISTOR	1	
			MISCELLANEOUS		
		VMD0645	PHOTO Tr. HOLDER	1	
	■	- - - - -	TAKE UP PHOTO Tr. C.B.A.		THIS PART IS INCLUDED
					IN SLIDE SW UNIT
					(VXA3498).
			CAPACITOR		
C1502		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
			CONNECTOR		
P1508		VJS2165	CONNECTOR	1	
			TRANSISTOR		
Q1502		PN150NV	TRANSISTOR	1	
			RESISTOR		
R1503		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
			MISCELLANEOUS		
		VMD0645	PHOTO Tr. HOLDER	1	